

**Mayor's Annual Message  
AND  
DEPARTMENT REPORTS  
:: : CITY OF HOUSTON :: :**

**1909**

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# ANNUAL MESSAGE

—OF—

# H. B. RICE,

*MAYOR OF THE CITY OF HOUSTON*

—AND—

# ANNUAL REPORTS OF CITY OFFICIALS

*FOR THE YEAR ENDING FEBRUARY 28, 1910.*

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COMPILED BY

DAN C. SMITH, JR.,

*City Controller and Secretary.*

HOUSTON, TEXAS:  
W. H. COYLE & CO., STATIONERS AND PRINTERS,  
1910.



## CITY OFFICIALS

H. B. RICE.....*Mayor*  
J. Z. GASTON.....*Mayor pro tem*

### COMMISSIONERS

J. Z. GASTON	JACK KENNEDY	ROBT. L. JONES
	W. J. KOHLHAUFF	

### FINANCE AND REVENUE

R. L. JONES	J. Z. GASTON, <i>Chairman</i>	
	W. J. KOHLHAUFF	JACK KENNEDY

### WATER COMMITTEE

R. L. JONES	<i>Chairman</i>	
J. Z. GASTON	JACK KENNEDY	W. J. KOHLHAUFF

### STREET AND BRIDGE COMMITTEE

W. J. KOHLHAUFF	JACK KENNEDY, <i>Chairman</i>	
	ROBT. L. JONES	J. Z. GASTON

### FIRE COMMITTEE

W. J. KOHLHAUFF	<i>Chairman</i>	
JACK KENNEDY	J. Z. GASTON	ROBT. L. JONES

### ORDINANCE COMMITTEE

J. Z. GASTON, <i>Chairman</i>		
JACK KENNEDY		ROBT. L. JONES

### BOARD OF APPRAISEMENT

J. Z. GASTON, <i>Chairman</i>		
W. J. KOHLHAUFF		JAS. P. WELSH

## HEADS OF DEPARTMENTS

T. C. DUNN (Active Vice-President Union National Bank) . . . . .	Treasurer.
D. C. SMITH, JR. . . . .	Controller and Secretary.
MISS ROBERTA COTTER. . . . .	Assistant Secretary.
JNO. A. KIRLICKS. . . . .	Judge of Corporation Court
W. H. WILSON. . . . .	City Attorney.
J. E. NIDAY. . . . .	Assistant City Attorney.
T. C. TARVER, JR. . . . .	City Engineer.
FRANK L. DORMANT. . . . .	Consulting and Constructing Engineer.
JAMES P. WELSH. . . . .	Assessor and Collector.
DR. GEO. W. LARENDON. . . . .	City Health Officer.
DR. F. J. SLATAPER. . . . .	Bacteriologist.
JOHN B. WILLIAMS. . . . .	Water Superintendent.
GEO. ELLIS . . . . .	Chief of Police.
JNO. HEFFERNAN . . . . .	Sewer Inspector.
W. X. NORRIS. . . . .	Building Inspector.
PAT DOUGHERTY. . . . .	Purchasing Agent.
F. J. OLLRE. . . . .	Market Master.
C. R. GEORGE. . . . .	City Electrician.
R. F. OLLRE. . . . .	Chief Fire Department.
M. MURPHY . . . . .	Wharf Master.
E. R. PARKER. . . . .	Fire Marshal.

## BOARD OF LIQUIDATION

F. A. REICHARDT	ED. H. HARRELL
O. T. HOLT	
B. F. BONNER	H. W. GARROW

## BOARD OF HEALTH

DR. JOE STUART, <i>President</i>	
DR. W. A. ARCHER	DR. J. W. SCOTT
DR. SID J. SMITH	
DR. J. D. DUCKETT	DR. S. HILLEN

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BOARD OF SCHOOL TRUSTEES

RUFUS CAGE, *President.*

W. H. NORRIS, *Vice-President.*

A. S. CLEVELAND, *Secretary.*

G. H. PENDARVIS.

*Finance Committee*

G. H. PENDARVIS      SAM SWINFORD      W. H. NORRIS

*Teachers' Committee.*

A. S. CLEVELAND      J. D. DUCKETT      W. H. NORRIS

*Course of Study and Text-Books*

S. MCNEILL      A. S. CLEVELAND      SAM SWINFORD

*School Property, Purchase and Repairs*

W. H. NORRIS      G. H. PENDARVIS      S. MCNEILL

*Hygiene*

DR. J. D. DUCKETT      G. H. PENDARVIS      S. MCNEILL

*Grievances and Complaints*

SAM SWINFORD      J. D. DUCKETT      A. S. CLEVELAND

W. PEINE, *Business Representative of the Board*



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ANNUAL MESSAGE

OF

H. B. RICE,

*MAYOR OF THE CITY OF HOUSTON.*

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# CITY OF HOUSTON

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## ***EXECUTIVE DEPARTMENT***

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### **MAYOR'S MESSAGE**

HOUSTON, TEXAS, March 14, 1910.

*To the Honorable City Council of the City of Houston.*

GENTLEMEN:—I herewith submit annual reports of the different departments and budget for the ensuing year.

In reviewing the past twelve months of municipal government in Houston, it must be readily admitted that the greatest period of progress and development that has ever taken place in any one year has just ended, and I heartily congratulate our people upon the bright prospects ahead of them. The investment of over a million and a half dollars in school houses, paved streets, sewers, wharves and slips, fire houses, extension of water mains, magnificent office buildings and factories, underground conduits and auditorium, emphasizes not only the progress, but presages the future of this city. Last, and of the greatest importance, the recognition by the National government of our waterway, so essential to Houston's growth and solidity, by the appropriation of \$1,250,000.00—based upon a like amount donated by our people. The proposition to appropriate \$1,250,000 by the National government for the work on our ship channel to meet a like amount by the City of Houston, came from Houston people and not from the National government.

The Rivers and Harbors Committee of the House has unanimously recommended, and the House of Representatives has adopted in their bill, this appropriation, and it is reasonable to suppose the Senate will confirm same. After the latter have acted, it is then up to the people of this county to carry out their part of the contract, and I am confident that they will do so.

In this connection I desire to state that the actual value of real and personal property in the corporate limits of Houston is about \$250,000,000, and yet we only assess same \$62,000,000, for the simple reason that we do not need more revenue for current expenses. From what I can learn and see, there is not over twenty per cent of our population that has ever been down the Houston ship channel, not from lack of desire, but from lack of transportation and opportunity.

It has been suggested, and I think the suggestion a good one, that the Launch Club of Houston inaugurate a series of trips down the channel and convey those who have never had an opportunity to see our waterway. By this method we can educate the people and show them their own natural advantages.

There is no doubt in this age the people are leaning too much towards "Paternalism." It is all right to argue that the National government should have the whole burden in this work, but there are hundreds of other places in America asking for assistance just like we, and the government cannot do it all. As the former chairman of the Rivers and Harbors Committee in the House, now Senator from Ohio, told us years ago: "Let those cities directly benefitted by government appropriation for waterways bear some of the burden." I agree with him, and if I am not mistaken, some day in the near future Houston will join hands with and tender the United States government a sufficient amount to build a rock jetty from Red Fish to Bolivar, forever settling her waterway problem, for that is her only weak point. Such a jetty is not like one projecting into the Gulf of Mexico or Atlantic Ocean. It will be in a bay, absolutely safe from all kinds of storms, and there for all time to come.

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When we reflect upon these matters, when we contemplate the increased wealth and population pouring almost daily into this community, is it not enough to justify a feeling of pride and confidence in the future?

There never was and never will be a more favorable time than the present for our people to act as a unit in the development of their city and broaden their views in conformity with scope and requirements.

Those who study and think of our natural advantages and topographical position in this State, readily understand that we must commence to lay the foundation for one of the greatest cities on the Gulf Coast. In the construction of sewers, both sanitary and storm, in the extension of water mains, and the preservation of the water supply, we must work with the view of having not less than 250,000 population or more in the next ten years.

According to the scholastic census, Houston has increased in population over forty per cent in the past four years; hence we can readily see the growth of this city.

The time has come when we must have more parks and playgrounds for the children. Property is becoming so valuable that unless prompt steps are taken, it will be almost beyond our means of obtaining same. I favor the creation of a Park Committee for this purpose, composed of three citizens—we to render all possible assistance.

In order to create an increased civic pride in this community, I suggest that the matter be brought to the attention of the school authorities, and thus imparting same to the children, secure most beneficial results.

I respectfully recommend that the salaries of the firemen and policemen be raised. The price of living has increased so rapidly that such an increase would be just and commensurate with common sense, the salary of the policemen to be made \$80.00 per month instead of \$75.00, and that of the firemen as recommended in the schedule of the Fire Commissioner. Owing to the growth of this city we added twelve men to the police force during the year.

Acting upon the advice of the Underwriters' Association the Fire Department was increased to one hundred men, and additional fire houses and apparatus have been provided in order to secure reasonable insurance rates.

From the bond fund and general revenue many miles of water mains were extended during the year, and a first-class pumping engine added to the power plant. These extensions and improvements, having been completed, you wisely reduced the water rate, which I think will compare favorably with that of any city of this size whose source of supply is from artesian wells.

Owing to the demand from new territory for bridges and drainage, the Street and Bridge Department was compelled to expend some thousands of dollars in excess of the budget, but the work was imperative and had to be done.

It is absolutely necessary that a new pumping station and filter beds be constructed south of the city. The present plant is large enough to accommodate the north side of Buffalo Bayou, and it would be unwise to syphon under the bayou below Houston, on account of the water traffic. This improvement should be made promptly to give relief to those people who have no sanitary sewers. Engineer Dormant in his report estimates the cost of this proposed work.

The construction of the ten-foot Austin Street storm sewer is now progressing nicely, and when completed will furnish drainage for a large area on the south side of the city. This is the largest work of the kind yet undertaken in Texas and it would benefit all citizens to examine this construction.

I am pleased to state that the work of dredging the slips at the "Turning Basin" has been rapidly pushed and in a few months will be completed.

It is necessary that a new modern bridge be constructed over Buffalo Bayou at San Jacinto Street. Traffic has increased so rapidly between the north and south sides of Buffalo Bayou that the sooner this bridge is completed the better. You have adopted the splendid plans of the Con-

sulting Engineer, and I recommend commencement of the work.

For the same reasons, bridges should be placed over White Oak Bayou on Houston Avenue, and over Buffalo Bayou on Preston Avenue. All of the above bridges should be constructed of concrete, making them permanent, thus reducing the cost of maintenance.

#### AUDITORIUM.

During the past fiscal year the government purchased seven lots of ground, in the heart of the city, for an auditorium, and recently let a contract for the building of same at a cost of \$235,000.00. I believe when completed this structure will prove of much benefit to the people at large. This improvement will be made out of the general fund without bond issue.

#### SHELL STREETS.

Some months ago, under the promise of the city to pave certain streets with shell, if the property holders would construct curbing at their own expense, a number of our people complied with their part of the contract, and I suggest that we take immediate steps to comply with ours.

#### EIGHT-HOUR DAY.

I congratulate you on the passage of the ordinance curtailing the hours of work for city employes and the governing of same in city contracts. The financial condition of Houston at the present time justified the measure.

#### FINANCIAL CONDITION.

From a perusal of the Controller's report you will notice that the city is in good financial standing, over \$300,000 having been invested in permanent improvements during the year out of the general revenues.

**HARMONY IN DEPARTMENTS.**

I wish to congratulate the Council on the harmony and good will existing in all departments and the pleasant relations existing between myself and the various heads of this municipal corporation. This is as it should be, and means that everyone takes an interest in his work.

**SCHOOLS.**

During the past year your honorable body constructed a handsome annex to the High School and other improvements at considerable cost. Our schools are in fine condition and I suggest you make such additional facilities the coming season as your means warrant.

**MAIN STREET BRIDGE.**

For the past several years citizens living on the north side of Buffalo Bayou, or in the vicinity of Montgomery Avenue, as well as some on the south side of Buffalo Bayou, because of lack of transporation facilities, have agitated the question of a viaduct across the bayou at Main Street. They claim that the innumerable railroad tracks along the present route prevents proper facilities between the sections of the city.

There is no doubt that such a viaduct would add greatly to the convenience of the city, hence I suggest that as the current revenue for the coming fiscal year will be absorbed in other permanent improvements, that a committee from that section of the city and one from the Business League, meet with the City Council, and see if ways and means cannot be adopted by which the construction of this viaduct could be accomplished at an early date, instead of waiting for some years to come. I am confident that if this meets with approval, that the viaduct can be constructed and facilitate the intercourse between our citizens.

**TAXES.**

I recommend that the tax levy for the ensuing year be placed at \$1.70 per hundred dollars.

**BUDGET.**

The annual budget for the different departments is respectfully submitted:

Mayor and Commissioners.....	\$ 13,600.00
Controller and Secretary.....	5,750.00
Law Department.....	10,500.00
Treasurer .....	620.00
Assessor and Collector.....	13,500.00
City Hall .....	3,000.00
Election .....	1,000.00
Damages .....	1,000.00
Interest on Bonds.....	222,400.00
Miscellaneous Expenses.....	15,000.00
Electric Lights.....	50,000.00
Police .....	100,000.00
Corporation Court.....	1,900.00
Fire Department.....	100,000.00
Health Department .....	16,000.00
Scavenger Department.....	13,000.00
Electrical Department .....	5,500.00
City Engineer.....	12,000.00
Streets and Bridges.....	85,000.00
Sewer Department .....	25,000.00
Garbage Department .....	16,000.00
Market Department .....	7,000.00
Schools .....	140,000.00
Parks .....	9,000.00
Carnegie Library .....	9,500.00
Storrie Certificates .....	10,300.00
Refunding Certificates .....	21,000.00
Mayor's Emergency .....	1,000.00
Buffalo Bayou .....	20,000.00
Total .....	\$926,570.00

**WATER DEPARTMENT.**

I recommend that the annual budget for the Water Department be made as follows:

General Expenses .....	\$ 80,000.00
Interest .....	55,000.00
Sinking Fund .....	28,000.00
Total .....	\$163,000.00

Very respectfully,

H. B. RICE,  
*Mayor.*

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## ANNUAL REPORT

OF

J. Z. GASTON,

*CHAIRMAN FINANCE AND REVENUE  
COMMITTEE,*

*For the Year Ending February 28, 1910.*

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## REPORT OF FINANCE AND REVENUE COMMITTEE.

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HOUSTON, TEXAS, March 10, 1910.

TO THE HON. H. B. RICE,  
*Mayor of the City of Houston.*

DEAR SIR:—The Finance and Revenue Committee here-with submits its annual report for the year ending February 28, 1910, together with the reports of the departments under the supervision of this committee. All the departments have worked harmoniously and together for the best interest of the city, as shown by the several reports.

The result of the year's work, as evidenced by the Controller's books, shows available cash on hand \$582,832.21 (not including \$29,884.00 placed in sinking fund during the past year). Accounts receivable amounting to \$430,281.98, including uncollected taxes \$380,769.78, water bills \$40,898.92, miscellaneous items \$8,613.28, making a total available assets of \$1,013,114.19. Against which we have current liabilities, consisting of warrants outstanding, \$76.31; unclaimed wages, \$640.58; special deposits, \$2,595.40, and \$57,818.62 representing accrued but not due interest on bonded debt, making total of \$61,130.91. In this connection we wish to call attention to the fact that current liabilities as compared with same date last year shows a reduction of \$52,882.02. In fact the city has no current liability that is not already provided for with cash in hands of the Treasurer.

The general revenues for the fiscal year show an excess over operating expenses of \$339,203.42, after taking up outstanding paving certificates, amounting to \$23,952.91, and Storrie certificates amounting to \$10,600.00. There

has been expended from general revenues, for permanent improvements, \$349,968.31, as evidenced by Controller's report (Exhibit B—Schedule No. 5), which is an itemized statement of this disbursement.

#### CITY HALL.

To handle the increased business of the Assessor and Collector's office there has been added new fixtures extending across and taking in one end of room of the Assessing Department; the vault has been repainted and new steel cases added.

The Assembly Room has been subdivided and one-half fitted up for the Consulting Engineer's Department.

It will be necessary to make some repairs in the heating arrangement of the hall the coming year.

We recommend that a fireproof vault be built of sufficient capacity to take care of the valuable papers and documents in the Controller's, Secretary's, Health and City Attorney's offices. The other offices are amply supplied with vaults.

#### MARKET.

Our market is one of the most attractive places of our city and is continually crowded with visitors and buyers. All of the stands are rented by good tenants, who keep their places orderly, clean and neat. This department has just received a thorough overhauling, rewiring for lighting purposes, repainting throughout and screening of all doors and openings. Revenue for the year from rents amounts to \$19,936.30, an increase over last year of \$802.55; the expense of operating and repairs \$9,885.56, leaving a net balance of \$10,050.74.

#### HOUSTON LYCEUM AND CARNEGIE LIBRARY.

This popular institution still grows in favor with our people, and the report hereto attached of Miss Ideson, Librarian, is very interesting and instructive.

## PARKS.

The difference between the city with parks and the city without parks is the difference between the home with the large, well-kept lawn, dotted with flowers and shrubs, and the squalid tenement which fronts on a back alley strewn with tin-cans and other trash.

While philanthropists, altruists and sociologists may deplore the tenement and expend much oratorical energy in their efforts to bring about a change, the fact remains, nevertheless, that with the growth of a city along comes the squalid tenement with its want-pinched children, whose playground is the back alley, and city builders have come to recognize that a vital need along with their building is the public playground. This need is as vital as the paving of streets, the lighting of them and keeping them clean, the building of bridges, providing for police and fire protection, making provision for an adequate water supply and the erection of school buildings and maintenance of a school system.

The people must be provided with playgrounds, and while we could hope that Houston will never have a congested tenement district, we recognize that Houston must become a great city, and we must strive to meet actualities—to provide for the inevitable.

In striving to anticipate future needs, Houston has become the owner of three large parks, embracing a total of 87½ acres. Sam Houston Park contains 16 acres; the annex to the park 13 acres, and is situated within six blocks of the center of the city and within easy walking distance of several car lines. It is abundantly equipped by nature with all the requisites for a playground, landscape artists having given a finishing touch, making of this one of the prettiest parks in the country.

Cleveland Park embraces 56 acres, and in the center of it is a lake that covers three acres. It abounds in forest trees, level vales and rolling hills, and is altogether an ideal picnic ground. This park skirts the western edge of the city, in a

district which has become thickly populated during the past few years. This park embraces a very valuable tract of land. The property was purchased less than four years ago for \$55,000, and the city could now double her money if it was deemed advisable to make such a deal. As the years pass the property will rapidly enhance in value, and the wisdom of the purchase will become more and more emphasized as this park meets the demand for playgrounds.

Elizabeth Baldwin Park, given to the city by Mrs. Elizabeth Baldwin Rice, is located in the southern portion of the city and contains  $2\frac{1}{2}$  acres. True, it is not a large park, but being situated in a district with homes with large lawns, it will meet the park requirements of that end of the city.

The popularity of Sam Houston Park during the past year is indicative of the vital need in Houston even now of a public playground where the people may go to spend an afternoon or evening during the heated summer term. During the summer free concerts were provided twice weekly, and thousands of men, women and children attended each concert. The park is open all day and until 9 o'clock every night, and is under strict police regulation. Women and children are as safe from contact with ruffianism in this park at all times as they are within the precincts of their own homes, and recognizing this they have come to make the park a gathering place in the afternoons and evenings even on the days that there is no music.

Many improvements have been made in this park during the past year. Wooden steps along the terraces have been replaced with stone, the several bridges have been placed in thorough repair, while the care of the flowers and shrubs, the terraces and the tiny heart-shaped lake in the midst of the park have been such as to cause much favorable comment from all visitors.

This park abounds with emblems which breathe the heroic history of the nation and of the State. They are instructive as well as entertaining.

Opposite the entrance to the park, in a small chapel tower, is the bell of the steamer Harriet Lane, a vessel which was

sunk in Galveston Bay during one of the most brilliant engagements of the war between the States. This bell, while serving the useful every-day purpose of chiming the opening and closing hours of the park, and while telling of a heroic struggle on the deep, also has an interesting local history.

Formerly it was in the High School and tolled the children to their books and to the recess play. Later it was transferred to the Fannin School and when the school building was burned, this bell, a second time having come through the furnace, fell into the possession of the contractor who cleared away the debris and was claimed by him as his property, and became lost as a memento.

A committee from Robert E. Lee Chapter, United Daughters of the Confederacy, of which Mrs. J. W. Scott was the chairman, instituted a search for the lost bell, which was finally located. It was then presented to the city by the Chapter amid appropriate ceremonies. The chapel was erected and there the bell has rendered daily service ever since.

Another interesting monument is "The Spirit of the Confederacy," which was erected by Robert E. Lee Chapter, United Daughters of the Confederacy, and dedicated to the memory of the soldiers who fell in the defense of the Southern States. It is a bronze winged figure standing on a rugged pile of Texas granite, emblematic of the enduring reverence of the people of this land for those brave men who fought for what they felt was right. The sculptor was Mr. Louis Amaties, of Washington, D. C., and the monument cost \$10,000.

"The Hero of Two Republics" is a handsome boulder of pink Texas granite erected to the memory of the heroes of the Revolution, and especially to the memory of Alexander Hodge, who was in truth a hero of two republics. After fighting through the war of the Revolution he removed to Texas and fought through the war of Texas Independence in 1836. He was an ancestor of Mrs. Seabrook Sydnor of this city. This handsome and historic pile was erected by the Lady Washington Chapter, Daughters of the American Revolution.

Terry's Texas Rangers, still another boulder, is that erected by children to the memory of the heroes of the "Lost Cause." This handsome pile was erected by E. Bennett Bates Children's Auxiliary to Oran M. Roberts Chapter, U. D. C. This monument was unveiled with elaborate ceremonies on October 20, 1909, during the convention of the General Association of the United Daughters of the Confederacy. The inscription on the monument is cut on a bas relief of the Texas Flag as a background. The money for the purchase of this monument was raised entirely by children. The inscription is as follows:

"Erected by E. Bennett Bates Auxiliary of  
Oran M. Roberts Chapter, U. D. C., of Houston,  
Texas, to the memory of Terry's Texas  
Rangers, '61-65."

The budget allowance for park maintenance and amusements for the past year was \$9,000.00. The expenses were as follows:

Sam Houston, maintenance .....	\$4,521.89
Sam Houston, band concerts.....	3,175.00
Cleveland, maintenance .....	770.20
Total expenditure .....	\$8,467.09

The revenues from the parks were as follows:

Sam Houston .....	\$267.00
Cleveland .....	296.25
Total .....	\$572.25

This shows a net increase of operating the parks of \$7,894.84, or an outlay of \$1,105.16 less than the budget allowance.

#### BUDGET.

We recommend the following budget allowance for departments of this committee for the coming year:

Treasurer .....	\$ 620.00
City Hall .....	4,000.00
Assessor and Collector.....	15,000.00
Market .....	7,000.00
Controller and Secretary .....	6,200.00
Sam Houston Park.....	5,000.00
Cleveland Park .....	1,000.00
Park Concerts .....	3,000.00
Carnegie Library .....	10,000.00

Respectfully submitted,

J. Z. GASTON,

*Chairman Finance and Revenue Committee.*



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## ANNUAL REPORT

OF

### R. L. JONES

*CHAIRMAN WATER COMMITTEE*

*For the Year Ending February 28, 1910.*

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## REPORT OF WATER COMMITTEE.

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HOUSTON, TEXAS, March 1, 1910.

TO THE HONORABLE H. B. RICE,  
*Mayor of the City of Houston, Texas.*

DEAR SIR:—As Chairman of the Water Committee, I herewith respectfully render to you and your Honorable Board the annual report of this department for the fiscal year ending February 28th, 1910.

You will please find herewith attached the reports of the Superintendent, Chief Engineer and Cashier, designated Exhibits "A," "B" and "C," respectively. Collectively these three reports cover in detail all the transactions of the Water Works Department for the past year, and a detailed description of the present condition of the system. The reports bear my approval and substantiation in every detail and I trust will meet with your approval also.

The fiscal year just closed has been a remarkably active one in waterworks affairs, and the gratifying results will certainly earn the approval of the administration and the general public.

It will not be necessary for me to dwell additionally upon the work already performed, but I desire to present a few suggestions and recommendations for the coming year.

The rapid growth of the city creates a crying need for water main extensions amounting to at least ten miles a year, with appurtenances. The estimated cost will amount to \$60,000.00, and I recommend that this amount be provided and rendered available for immediate use.

I am pleased to state here that at no time during the unusual drought of midsummer did we suffer any water shortage whatever. However, on account of the large number

of new consumers, present and prospective, I suggest that we drill five more 8-inch artesian wells at the pumping plant, same to be paid for out of our current revenue.

The plan of delivering water by meter measure has produced such satisfactory results, both to the consumers and this department, that I recommend metering at once all service connections supplying other than strictly private domestic premises, and the balance of all consumers just as speedily as the financial condition of the department will permit. All metered consumers are now practically employees of the Water Department, each serving as water inspector on his own premises.

The sum of \$80,000.00 will be necessary for operative and management expenses for the coming year, and I recommend that this amount be appropriated from the general fund for this purpose.

The problem of "pumping capacity" having been solved and eliminated by the installation of a new 15,000,000-gallon pump, the department is prepared to devote special attention to water main extensions and water conservation during the coming year. The idea will be to furnish mains and service connections necessary to deliver and encourage the use of pure artesian water for all legitimate purposes, and to discourage and prevent all unnecessary waste.

During the past year 93,253 feet of new mains, ranging in size from 8 inches to 24 inches, were installed to supply the rapid increase in population. These extensions were made in localities where fire protection and pure water for general supply were needed, and, incidentally, where the general circulation of the system could be improved by connecting dead ends and low places. The city is now supplied with pure artesian water exclusively, the best water in the world for all purposes, through a perfect circulating system.

It is regrettable that a certain percentage of the people who should be benefitted by the new extensions have failed to appreciate the consideration and efforts extended for

their benefit and choose to remain non-consumers of city water. However, it is pleasant to note that this percentage is decidedly in the minority and will not influence this department in our continued efforts for the common good.

The electric power machinery at the pumping station has been in service for more than fifteen years and is too small for present purposes. I recommend that it be replaced with a new engine and dynamo at an estimated cost of \$2,500.00.

To conform to the systems of account now in vogue in most of the municipal departments, I suggest that the books of this office be audited and the Haskins & Sells system of accounting be established for future use.

On behalf of the Water Department and myself I desire to embrace this opportunity to extend our thanks to you and my fellow-commissioners, and to the heads of the several municipal departments, for your encouraging co-operation and courtesies during the past year. We beg to assure you that you can rely upon this department at all times in your administrative efforts toward a "Greater Houston."

Respectfully submitted by

ROBT. L. JONES,  
*Water Commissioner.*

HOUSTON, TEXAS, March 1, 1910.

HON. ROBERT L. JONES,

*Chairman of the Water Committee,  
City of Houston.*

DEAR SIR:—The annual report of the Water Works Department for the year ending February 28th, 1910, is herewith respectfully submitted.

The prominent features to which your attention is invited relate to the increase in population, revenue, pipe-mileage, pumping capacity and fire protection, and to the decrease in per capita pumpage, total pumpage, fuel consumption and the selling price of water.

Respectfully,

H. J. ARRIVEE,  
*Superintendent.*

**EXHIBIT "A."**  
**REPORT OF THE SUPERINTENDENT.**

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**CONSTRUCTION.**

**MAINS.**

At a cost of \$112,532.56, there was installed during the year 4,423 feet of 24-inch, 8 feet of 20-inch, 12,418 feet of 12-inch, 76,372 feet of 8-inch and 32 feet of 6-inch mains, a total of 93,253 feet. The system now embraces a total of 94.6 miles, an increase of 23% since the year previous. A map showing the locations of both old and new mains has been prepared and is a part of this report.

**FIRE PROTECTION.**

The new mains installed include the setting of 128 new three-nozzle fire-hydrants, making a total of 816 and increasing the fire protection  $18\frac{1}{2}\%$ .

**PUMPS.**

A new Nordberg horizontal pump, with a daily capacity of 15,000,000 gallons, has been in operation since last November. This pump has proven capable of handling the total daily consumption with plenty to spare, and is saving about 39% in fuel oil. The Chief Engineer's report, on another page, covers this item in detail.

**METERS.**

Eight hundred and forty new meters were purchased during the year. At present there are 1,641 city meters in service and 277 on hand ready to be installed. A series of tables are included in this report, which show in detail all of the transactions for the past year, and the present status of the Meter Department.

**SERVICE CONNECTIONS.**

Four hundred and sixty-eight new services, tapped to supply 1,420 new buildings, were installed during the year—making a total of 6,726 connections, supplying 8,831 houses and buildings. A net gain of 19% for the year.

## REPAIRS.

## MAINS.

It was deemed necessary to repair seventeen stop-gates, which had been out of order for several years, and were of no value in that condition. Most of them were located in the business district and doubled or tripled the fire risk during repair work when it became necessary to cut off water from the mains. We are now prepared to repair a single fire hydrant without putting a dozen or more temporarily out of commission. It was necessary also to cut the mains in several different places and insert extra stop-gates in order to control the conveyance of flow and volume in case of big fires in the business district. All of the regular employes are now drilled in the work of conveying the large volume of water to a fire while the balance of the city is being temporarily supplied through smaller pipes. I am pleased to report that we have always had an abundance of water at the steamer plug at every fire during the past year, and that we will continue to be amply prepared in the future.

The 6-inch main on Franklin Avenue became so badly carbonated by electrolysis that it was necessary to renew 300 feet near La Branch Street. This line is still bad in spots, but as it is holding pressure at present I suggest that we wait the outcome of the Houston Electric Company's experiments to obviate this trouble.

About 75% of our street repairs are traceable to two causes: First—Electrolysis attacking our mains and service connections. Second—Allowing street sprinklers and others to operate the fire hydrants. Both of these causes can be removed with profit to this department.

## BUILDINGS AND MACHINERY.

With the exception of the new brick walls and foundations at the air compressor annex, all of the buildings and machinery repairs have been of a minor nature, making up in number what each repair lacks in magnitude. During

the past year there has been more miscellaneous repairing at the pumping plant and over the system than has been done any previous three years all told, such as repairs to foundations and walls, re-calking joints, replacing old fire-hydrants with modern ones, repairing stop-gates and adding new ones, installing new meter testing device, lowering shallow mains, etc., etc. All of which add to the efficiency and asset value of the system.

#### METERS.

About 90% of the meters are new and the repairing consists chiefly in cleaning. This is caused by the fine sand particles from the artesian wells lodging in the meter between the disk and measuring chamber and causing loss of registration while not damaging the meter itself to any great extent. The greater portion of the sand usually settles and remains at the bottom of the main pipe and does not get to the meter, or consumer, until an increased velocity of flow occurs to stir it up, generally caused by fire steamers pumping water from the main.

#### SERVICE CONNECTIONS.

Seven hundred service connections were repaired during the year; of this number only about 20% were damaged by electrolysis, which is a very material decrease since the previous year, and indicates that the street car company is making effective efforts to remedy this trouble. Damage to curb-cocks and pipe immediately adjacent to same is an item of repairs too numerous to tolerate and should be discontinued by locking the curb-cock against its being tampered with by any other than this department, and requiring that each service connection be equipped with an extra stop and waste cock set inside of the property line for cutting off water to prevent freezing and for making repairs. Curb-cocks are not made for every-day use and are so constructed as to be limited to the number of turns they will stand without leaking. They are made entirely of metal, without any gasket or packing, and are intended for the

use of the Water Department to control the flow at the curb and thereby save the time and expense of digging up the main in the street to cut off water. Being made without any deteriorating material, they will last a great many years if properly used. An ordinance providing a penalty for tampering with the curb-cock should be added to the ordinance, rules and regulations.

#### PUMPAGE.

Year.	Population.	Gallons per day per capita.
1904.....	61,000	163.6
1905.....	66,000	162.8
1906.....	71,000	155.0
1907.....	78,000	130.0
1908.....	82,000	110.0
1909.....	90,000	100.0
1910.....	100,000	85.0

The above figures show what the city is accomplishing in water waste detection. Since the beginning of city ownership, October 1, 1906, the per capita pumpage has been reduced from 155 gallons to 85 gallons per day, a net saving of 43%, with less than 18% of our consumers supplied through meters. However, there is still a big margin of waste unaccounted for, and I recommend that extensive meter setting be continued, and also the purchase of one or more petometers for checking waste and leaks over the system. The department is prepared to make petometer tests without employing experts or any additional help. Every-day observation and investigation shows that there is still a big waste to be located and checked in order to bring the per capita pumpage down to about 60 gallons per day, which is approximately the amount necessary to adequately supply the city for all purposes. Diagrams "A," "B," "C" and "D," herewith included, give a detailed history of pumpage and its relation to fuel oil consumption from 1902 to 1909 inclusive.

#### EXPENSES.

The increase in ordinary expenses over the year previous is accounted for by the increased clerical and inspection force employed at locating leaks and waste, reading meters,

collecting delinquent bills, locating non-paying customers, etc. The result is a very marked increase in gross revenue, a decided reduction in pumppage and fuel oil consumption, and a more equitable basis of charges to flat rate consumers. This work is still incomplete and will be continued during the coming year.

#### REVENUE.

The moral influence established by general meter installing is accountable for a greater saving of water than is the actual number of meters in service. Less than 18% of the total number of consumers are supplied through meters, and the saving amounts to more than 40% in per capita pumppage. Few people waste water intentionally and only need to realize what the small and apparently inappreciable leak amounts to and they will usually stop it voluntarily without any urging from the Water Department. The policy of discriminate meter setting has created an educated public and a condition which has enabled the department to cut the selling price of water from 50 cents to 15 cents per 1,000 gallons in less than three years time, at the same time increasing both the gross and net revenue without deviating from the policy of absolute self-sustenance independent from any assistance from the general taxes. The cashier's report includes all the items of receipts and disbursements and shows a balance in favor of net earnings. To this balance should be added the value of water furnished free for fighting fires, sprinkling streets, flushing sewers, supplying schools, charitable institutions, parks, fountains, water troughs, etc. The one item of fire hydrant rental alone is saving the city \$28,480.00 annually. The total saving amounts to more than \$70,000.00 annually.

#### STATISTICS.

The following condensed report is compiled in standard form generally approved by water works systems.

## GENERAL STATISTICS.

- (1) Population (estimated), 100,000.
- (2) By whom owned: The city.
- (3) Source of supply: 46 artesian wells. Diameter, 4" to 12". Depth, 200' to 1,330'. Average, 757'. Auxiliary supply (emergency), Buffalo Bayou Ship Channel.
- (4) Mode of supply: Deep well pumps and air compressors.

## PUMPING STATISTICS.

- (1) Builders of machinery. Worthington, Ingersoll-Rand, Nordberg & Hooker.
- (2) Fuel: Fuel oil.
- (3) Oil consumed for the year, 39,408 barrels.
- (4) Total pumpage for the year with slippage, 3,197,477,010 gallons.
- (5) Average static head against which pumps worked, 138.20 feet.
- (6) Average dynamic head against which pumps worked, 30.0 feet.
- (7) Average gallons water pumped per barrel oil, 80,632 gallons.
- (8) Cost of pumpage figured on current expenses, \$70,392.44.
- (9) Cost per 1,000,000 gallons pumped, \$22.33.

## RECEIPTS FOR THE YEAR.

(1) From Bond Issue.....	\$104,129.17
(2) From Flat Rates.....	141,038.51
(3) From Meters .....	70,802.39
(4) For Service Connections.....	9,835.05
(5) For Repairs .....	1,455.56
(6) For Miscellaneous .....	288.00
Total receipts.....	\$327,548.68

## EXPENDITURES FOR THE YEAR.

(1) Operation (management and repairs).....	\$ 70,392.44
(2) Interest on bonds.....	54,220.00
(3) Extension of mains .....	112,532.56
(4) Extension of service connections.....	8,026.20
(5) Extension of meters .....	17,774.06
(6) Extension of pumps .....	45,020.75
(7) Extension of buildings.....	3,688.30
(8) Extension of miscellaneous .....	4,789.87
(9) Supplies on hand.....	9,579.14
Total expenditures.....	326,023.32
Net balance.....	\$ 1,525.32
Net cost of works to date.....	\$1,211,404.94
Bonded debt at date.....	1,001,000.00
Average rate of interest.....	5.416%

## STATISTICS OF CONSUMPTION OF WATER.

- (1) Estimated total population to date, 100,000.
- (2) Mains extended during the year, 93,253 lineal feet.
- (3) Total consumption for the year, 3,197,477,010 gallons.
- (4) Passed through meters, 415,672,011 gallons.
- (5) Percentage of consumers metered, 13%.
- (6) Average daily consumption, 8,760,211 gallons.
- (7) Gallons per day each inhabitant, 87.6.
- (8) Cost of supplying water per 1,000,000 gallons, figured on maintenance, \$22.33.
- (9) Total cost per 1,000,000 gallons, figured on maintenance and interest, \$39.45.  
(8% metered March 1, 1909, and 18% metered March 1, 1910.)

## STATISTICS RELATING TO DISTRIBUTION SYSTEM.

## Mains.

- (1) Kind of pipe, cast iron.
- (2) Sizes, 4" to 24".
- (3) Extended during the year, 93,253 lineal feet.
- (4) Discontinued, 330 lineal feet.
- (5) Total now in use, 94.62 miles.
- (6) Cost of repairs per mile, \$10.80.
- (7) Number of leaks per mile, 0.36.
- (8) Number of fire hydrants added during the year, 128.
- (9) Number of fire hydrants now in use, 816.
- (10) Number of stop-gates added during the year, 127.
- (11) Number of stop-gates now in use, 981.
- (12) Number of blow offs, 2.
- (13) Range of pressure on the mains, 22 to 50 pounds.

## SERVICES.

- (1) Kind of pipe, lead, galvanized and cast iron.
- (2) Sizes,  $\frac{1}{2}$ " to 6".
- (3) Extended, 10,828 lineal feet
- (4) Discontinued, 1,050 lineal feet.
- (5) Total now in use, 141,246 lineal feet.
- (6) Average length of each service, 21 feet.
- (7) Average cost, \$17.15.
- (8) Number added during the year, 468. ..
- (9) Number now in use, 6,726.
- (10) Percentage of services metered, 18%.
- (11) Percentage of receipts from metered water, 33 1/3%.

Respectfully submitted,

H. J. ARRIVEE,  
*Superintendent.*

TABLE NO. 1.  
METERS OWNED BY THE CITY.

Sizes Owned previous to Feb. 28, 1908.....	$\frac{5}{8}$ -in.	$\frac{3}{4}$ -in.	1-in.	$1\frac{1}{2}$ -in.	2-in.	3-in.	6-in.	Total
Bought during year.....	400	265	95	30	50	0	0	840
Received in exchange.....	100	50	30	0	0	0	0	180
Totals.....	785	618	339	112	119	0	0	1,974
*Scrapped during the year.....	0	1	4	4	4	0	0	13
Sold during year.....	0	0	0	0	2	0	1	3
†Returned, exchange.....	0	0	0	0	40	0	0	40
Totals.....	0	1	4	4	46	0	1	56
Owned by the City Feb. 28, 1910.....	785	617	335	108	73	0	0	1,918

\*The 13 scrapped meters were old obsolete types, too badly worn to repair.

†Being overstocked with 2" meters, 40 were returned to the factory and 180 smaller sizes were received in exchange.

TABLE NO. 2.  
NUMBER OF METERS SET MONTHLY, 1909-10.

MONTH	No. Set	No. Taken Out	Net Gain
<b>1909</b>			
March.....	62	7	55
April.....	24	4	20
May.....	27	7	20
June.....	29	9	20
July.....	70	9	61
August.....	111	3	108
September.....	76	6	70
October.....	137	4	133
November.....	149	5	144
December.....	99	9	90
<b>1910</b>			
January.....	188	12	176
February.....	83	3	80
Totals.....	1055	78	977

TABLE NO. 3.  
SIZES OF CITY METERS IN SERVICE.

Sizes In use Feb. 28, 1909.....	$\frac{5}{8}$ -in.	$\frac{3}{4}$ -in.	1-in.	$1\frac{1}{2}$ -in.	2-in.	Totals
Set during 1909-10 (new).....	553	345	100	37	20	1055
Set in exchange.....	43	76	55	3	7	184
Totals.....	786	645	308	98	66	1903

Sizes	$\frac{5}{8}$ -in.	$\frac{3}{4}$ -in.	1-in.	$1\frac{1}{2}$ -in.	2-in.	Totals
Taken out (discontinued).....	23	33	11	6	5	78
Taken out (in exchange).....	43	73	57	3	8	184
Totals.....	66	106	68	9	13	262
In service Feb. 28, 1910.....	720	539	240	89	53	1641

TABLE NO. 4.  
CITY METERS ON HAND (NOT IN SERVICE).

Sizes	$\frac{5}{8}$ -in.	$\frac{3}{4}$ -in.	1-in.	$1\frac{1}{2}$ -in.	2-in.	Totals
Old.....	39	25	39	11	7	121
New.....	26	53	56	8	13	156
Totals.....	65	78	95	19	20	277

TABLE NO. 5.  
PRIVATE METERS.

Sizes	$\frac{5}{8}$ -in.	$\frac{3}{4}$ -in.	1-in.	$1\frac{1}{2}$ -in.	2-in.	3-in.	4-in.	6-in.	Totals
In use Feb. 28, 1909.	0	2	1	3	7	0	2	0	15
Set during the year.	4	0	0	0	2	1	0	1	8
Totals.....	4	2	1	3	9	1	2	1	23
Taken out.....	0	1	1	0	0	0	1	0	3
In use Feb. 28, 1910.	4	1	0	3	9	1	1	1	20

TABLE NO. 6.  
PRIVATE RE-REGISTERING METERS.

Sizes	$\frac{5}{8}$ -in.	$\frac{3}{4}$ -in.	1-in.	$1\frac{1}{2}$ -in.	2-in.	3-in.	4-in.	6-in.	Total
In use Feb. 28, 1909	14	1	0	0	0	0	0	0	15
Set during the year.	4	0	0	0	0	0	0	0	4
In use Feb. 28, 1910.	18	1	0	0	0	0	0	0	19

RECAPITULATION.

Number of meters owned by the city.....	1,918
Number of private meters .....	20
Number of private re-registering meters.....	19
Total number of all meters.....	1,957

TABLE NO. 7.  
COST OF SETTING.

Size	Num- ber Set	Cost of Meter	Average Cost of Setting	Total Average Cost	Total Cost of Setting	Total Cost
$\frac{5}{8}$ -inch.....	553	\$ 8.40	\$5.40	\$13.80	\$2,986.20	\$7,631.40
$\frac{3}{4}$ -inch.....	345	12.40	5.80	18.20	2,001.00	6,279.00
1 -inch.....	100	16.00	6.10	22.10	610.00	2,210.00
$1\frac{1}{2}$ -inch.....	37	31.50	6.15	37.65	227.55	1,393.05
2 -inch.....	20	45.00	6.30	51.30	126.00	1,026.00
3 -inch.....	.....	80.00	.....	.....	.....	.....
4 -inch.....	.....	160.00	.....	.....	.....	.....
6 -inch.....	.....	350.00	.....	.....	.....	.....
	1055				\$7,050.75	\$18,539.45

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Total cost of new settings.....	\$ 7,050.75
Betterments in old settings.....	105.40
Meters bought .....	10,527.81
Increase of supplies on hand.....	195.50
Cost of repairs .....	570.00
Cost of reading .....	1,080.00
Cost of clerical work .....	1,200.00
Postage and miscellaneous.....	336.00
Total .....	\$21,065.46

DIAGRAM "A"

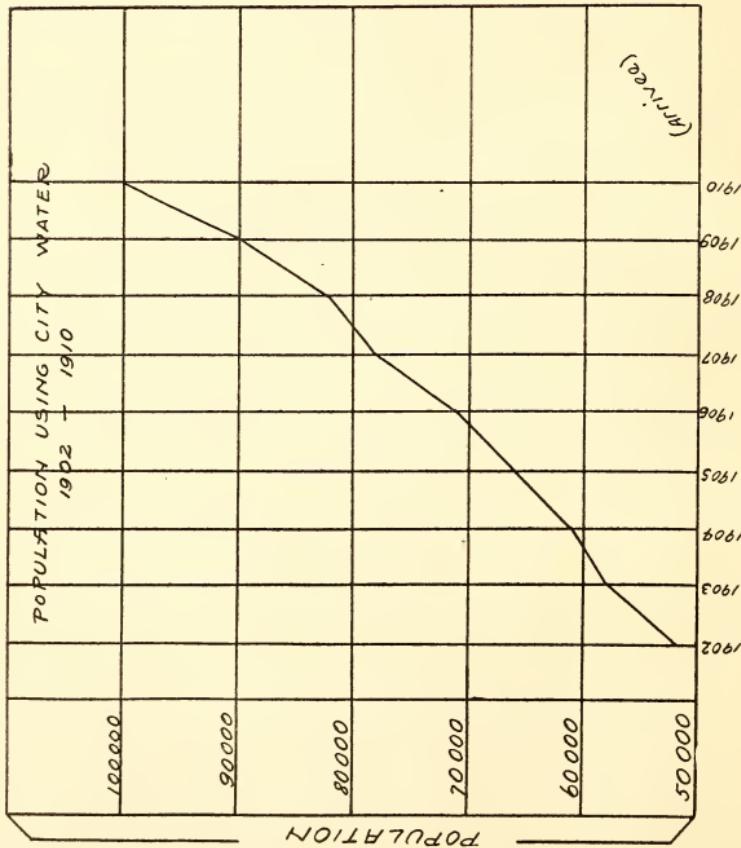


DIAGRAM "B"

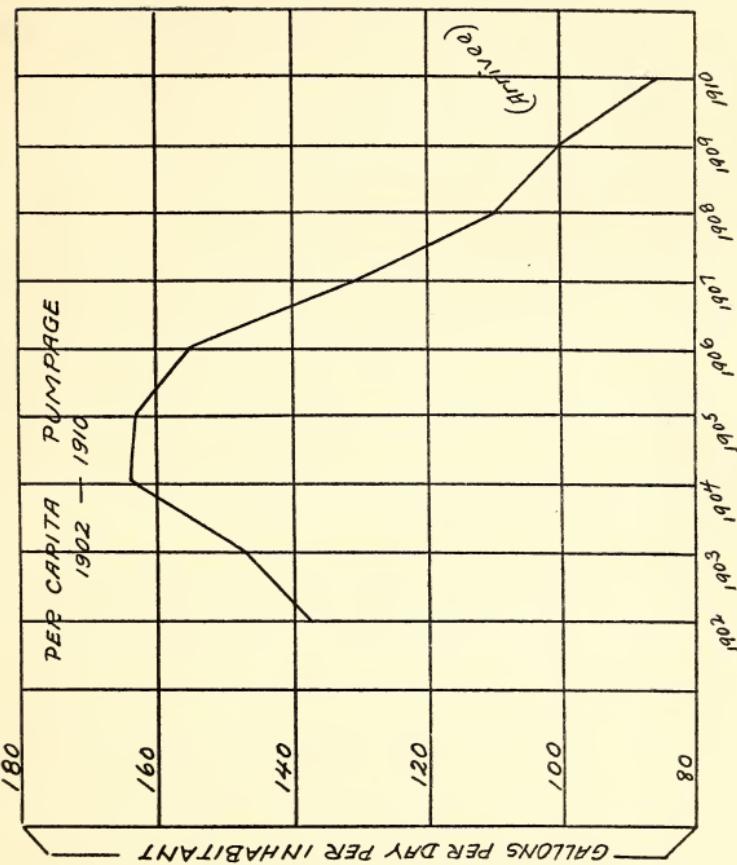
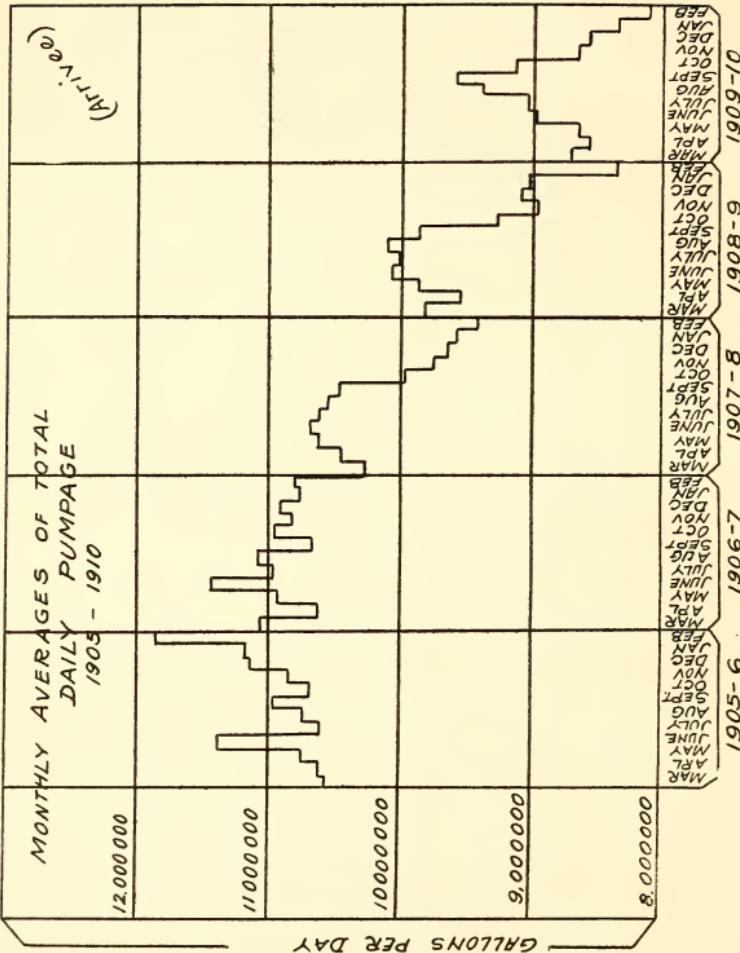
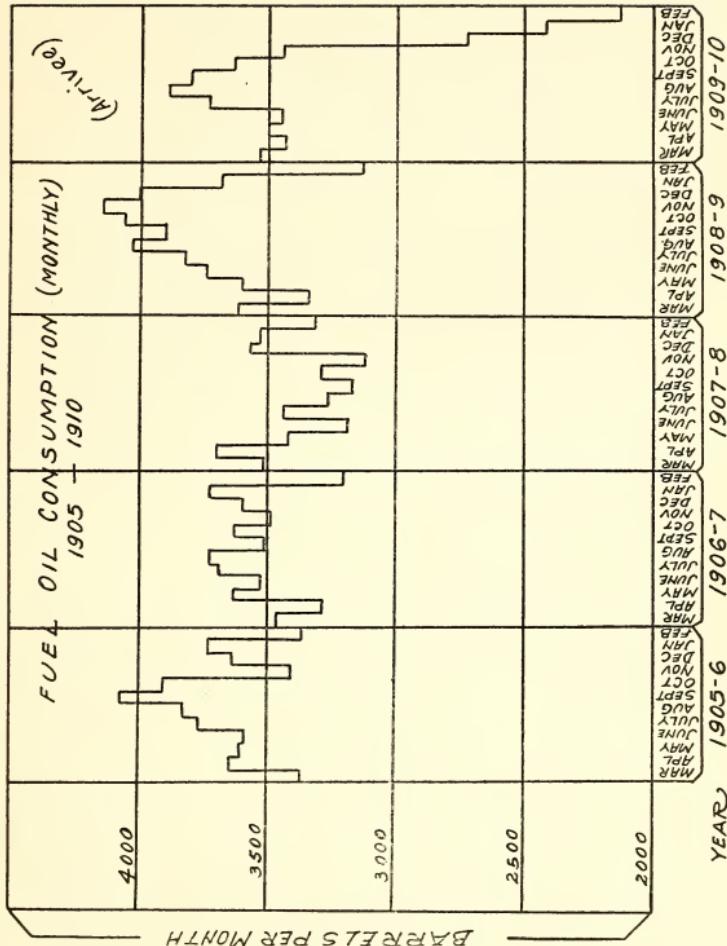
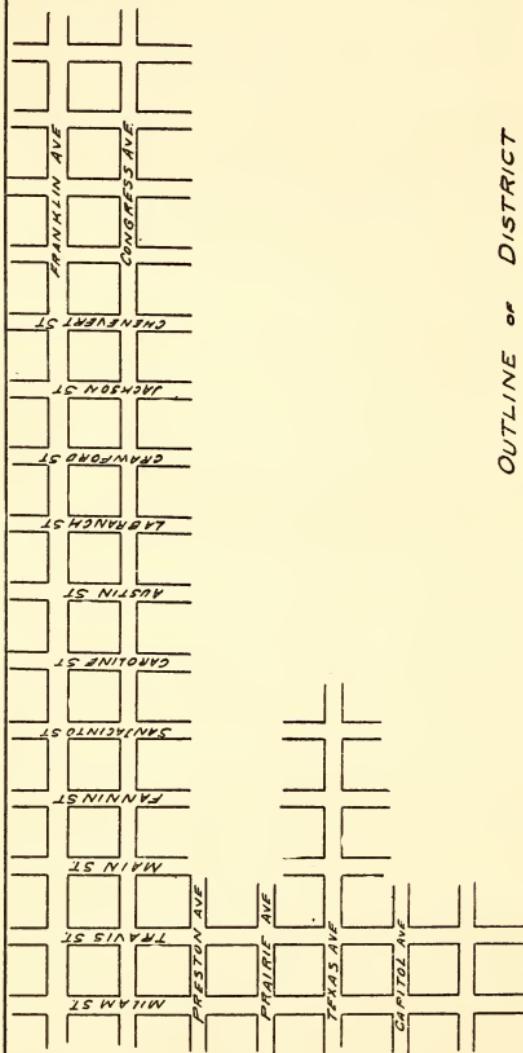


DIAGRAM "C"



### *DIAGRAM "D"*





OUTLINE or DISTRICT  
being damaged by  
*ELECTROLYSIS.*

*Robert L. Jones,  
Water Commissioner;  
H. J. Arrivee  
Sup't*

**EXHIBIT "B."**  
**REPORT OF CHIEF ENGINEER.**

HOUSTON, TEXAS, March 1, 1910.

MR. ROBERT L. JONES,  
*Water Commissioner, City.*

DEAR SIR:—Complying with your request, I herewith submit my report of the working and conditions of the City Water Works Pumping Station, for the year ending February 28th, 1910.

We have made several alterations and additions, the principal one being the erection of the new 15,000,000-gallon Nordberg high efficiency pumping engine. Steam was turned on this engine Wednesday, October 6th, but no water was pumped until Sunday, October 10th, when a run of three hours was made. Everything was found to be in good working condition. This engine was shut down until Friday, November 26th, when it was started up on a fourteen-day trial run, which was made without a stop, and found to work up to guarantee, and has been in continuous service to date.

With the addition of this engine, the capacity of the plant is doubled, making it one of the best in the State. All buildings at the pumping station have been re-wired for electric lighting under the supervision of Mr. George, City Electrician.

**PUMPAGE AND FUEL OIL.**

	MARCH, 1909.	Gallons.	Gallons.
Amount water pumped by Engine No. 764....	196,486,900		
Amount water pumped by Engine No. 330....	73,098,240		
Total .....		269,585.140	
Average amount water pumped per day, both engines .....	8,696,294		
		Barrels.	Barrels.
Amount fuel oil received this month, 11 cars, amounting to .....	3,050		
Amount fuel oil on hand March 1.....	2,436		
		5,486	
Amount fuel oil on hand March 31.....		1,986	
Amount fuel oil burned during March.....		3,500	
Amount fuel oil burned per day.....	112.90		

	APRIL, 1909.	Gallons.	Gallons.
Amount water pumped by Engine No. 764....	188,653,100		
Amount water pumped by Engine No. 330....	68,008,960		
Total .....		256,662,060	
Average amount water pumped per day, both engines .....		8,555,402	
	Barrels.	Barrels.	
Amount fuel oil received this month, 13 cars, amounting to .....	3,193		
Amount fuel oil on hand April 1.....	1,986		
		<u>5,179</u>	
Amount fuel oil on hand April 30.....		1,762	
Amount fuel oil burned during April.....		3,417	
Amount fuel oil burned per day.....		114.56	
	MAY, 1909.	Gallons.	Gallons.
Amount water pumped by Engine No. 764....	199,790,720		
Amount water pumped by Engine No. 330....	67,842,560		
Total .....		267,633,280	
Average amount water pumped per day, both engines .....		8,633,332	
	Barrels.	Barrels.	
Amount fuel oil received this month, 15 cars, amounting to .....	3,779		
Amount fuel oil on hand May 1.....	1,762		
		<u>5,441</u>	
Amount fuel oil on hand May 31.....		2,238	
Amount fuel oil burned during May.....		3,303	
Amount fuel oil burned per day.....		106.55	
	JUNE, 1909.	Gallons.	Gallons.
Amount water pumped by Engine No. 764....	200,913,020		
Amount water pumped by Engine No. 330....	68,592,640		
Total .....		269,505,660	
Average amount water pumped per day, both engines .....		8,983,522	
	Barrels.	Barrels.	
Amount fuel oil received this month, 10 cars	2,826		
Amount fuel oil on hand June 1.....	2,238		
		<u>5,064</u>	
Amount fuel oil on hand June 30.....		1,790	
Amount fuel oil burned during June.....		3,274	
Amount fuel oil burned per day.....		109.13	

	JULY, 1909.	Gallons.	Gallons.
Amount water pumped by Engine No. 764....	202,211,840		
Amount water pumped by Engine No. 330....	77,032,960		
<hr/>			
Total .....		279,244,800	
Average amount water pumped per day, both engines .....		9,007,897	
	Barrels.	Barrels.	
Amount fuel oil received this month, 13 cars	3,339.66		
Amount fuel oil on hand July 1.....	1,790		
<hr/>			
Amount fuel oil delivered to city wagon.....	362		5,129.66
Amount fuel oil on hand July 31.....	1,175		
<hr/>			1,537
Amount fuel oil burned during July.....			3,592
Average amount fuel oil burned per day.....		115.87	
	AUGUST, 1909.	Gallons.	Gallons.
Amount water pumped by Engine No. 764....	209,613,100		
Amount water pumped by Engine No. 330....	81,615,360		
<hr/>			
Total .....		291,228,460	
Average amount water pumped per day, both engines .....		9,394,466	
	Barrels.	Barrels.	
Amount fuel oil received this month, 16 cars	4,393		
Amount fuel oil on hand August 1.....	1,175		
<hr/>			
Amount fuel oil delivered to city wagon.....	618		5,568
Amount fuel oil on hand August 31.....	1,173		
<hr/>			1,791
Amount fuel oil burned during August.....			3,777
Average amount fuel oil burned per day.....		121.83	
	SEPTEMBER, 1909.	Gallons.	Gallons.
Amount water pumped by Engine No. 764....	202,515,520		
Amount water pumped by Engine No. 330....	83,878,400		
Amount water pumped by old engine.....	812,500		
<hr/>			
Total .....		287,206,420	
Average water pumped per day, all engines..	9,573,547		
	Barrels.	Barrels.	
Amount fuel oil received this month, 16 cars	4,299		
Amount fuel oil on hand September 1.....	1,173		
<hr/>			
Amount fuel oil delivered to city wagon.....	57		5,472
Amount fuel oil on hand September 30.....	1,633		
<hr/>			1,690
Amount fuel oil burned during September...			3,782
Average amount fuel oil burned per day.....		126	

	OCTOBER, 1909.	Gallons.	Gallons.
Amount water pumped by Engine No. 764....	193,939,660		
Amount water pumped by Engine No. 330....	73,290,240		
Amount water pumped by Nordberg engine..	16,052,160		
Total .....		283,281,660	
Average water pumped per day, all engines..	9,138,118		
		Barrels.	Barrels.
Amount fuel oil received this month, 13 cars	3,677		
Amount fuel oil on hand October 1.....	1,633		
		5,310	
Amount fuel oil on hand October 31.....		1,688	
			3,622
Amount fuel oil burned during October.....			
Average amount fuel oil burned per day.....	116.84		
	NOVEMBER, 1909.	Gallons.	Gallons.
Amount water pumped by Engine No. 764....	162,717,240		
Amount water pumped by Engine No. 330....	53,871,640		
Amount water pumped by Nordberg engine..	42,260,890		
Total .....		258,849,770	
Average water pumped per day, all engines..	8,628,325		
		Barrels.	Barrels.
Amount fuel oil received this month, 14 cars	4,185		
Amount fuel oil on hand November 1.....	1,688		
		5,873	
Amount fuel oil on hand November 30.....		2,441	
			3,432
Amount fuel oil burned during November...			
Average amount fuel oil burned per day.....	114.40		
	DECEMBER, 1909.	Gallons.	Gallons.
Amount water pumped by Nordberg engine..	245,369,520		
Amount water pumped by Engine No. 764....	14,261,140		
Amount water pumped by Engine No. 330....	5,475,640		
Total .....		265,106,300	
Average water pumped per day, all engines..	8,551,816		
		Barrels.	Barrels.
Amount fuel oil received this month, 9 cars..	2,743		
Amount fuel oil on hand December 1.....	2,441		
		5,184	
Amount fuel oil on hand December 31.....		2,652	
			2,532
Amount fuel oil burned during December....			
Average amount fuel oil burned per day.....	81.02		

JANUARY, 1910.

	Gallons.	Gallons.
Amount water pumped by Nordberg engine..	249,716,520	
Amount water pumped by Engine No. 764....	5,858,320	
Amount water pumped by Engine No. 330....	3,422,720	
<hr/>		
Total .....		258,997,560
Average water pumped per day, all engines..	8,354,760	
		Barrels.
Amount fuel oil received this month, 7 cars..		2,112.88
Amount fuel oil on hand January 1.....		2,652
		<hr/>
Amount fuel oil on hand January 31.....		4,764.88
		2,396
<hr/>		
Amount fuel oil burned during January.....		2,368.88
Average amount fuel oil burned per day.....		76.42

FEBRUARY, 1910.

	Gallons.	Gallons.
Amount water pumped by Nordberg engine..	226,195,800	
Amount water pumped by Engine No. 764....	2,242,720	
Amount water pumped by Engine No. 330....	1,116,160	
<hr/>		
Total .....		229,954,680
Average amount water pumped per day.....	8,191,238	
		Barrels.
Amount fuel oil received this month, 6 cars..		1,807.93
Amount fuel oil on hand February 1.....		2,396
		<hr/>
Amount fuel oil on hand February 28.....		4,203.93
		2,238.09
<hr/>		
Amount fuel oil burned during February....		1,965.84
Average amount fuel oil burned per day.....		70.20

## RECOMMENDATIONS.

I would respectfully recommend that two new air pistons with Hurricane inlet valves be purchased for the old air compressor, with packing rings complete, as the ones in service have been in constant use for the past seven years and need renewal.

That pumping engine No. 764 be given a thorough overhauling. The steam ends are in bad shape, as nothing has been done to them since they were placed in service. Both plungers and rods are scored very badly and should be renewed.

That new plungers and rods be put in engine No. 330.

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Our electric light engine and dynamo are about worn out. They have been in constant service for the past fifteen years. I would recommend that a new direct connected engine and dynamo of 75 amperes capacity be purchased.

That the strainer in the 1200-foot well on the north side of the pumping station be pulled out and a new one be put in its place, as this well had to be cut out on account of sand filling the casing.

That at least five new wells be put down on the north side of the bayou on the city park property. I think that the sinking of these wells would give us enough water to supply the increased demand for water for some time to come.

That the brick smoke stack be repaired, as the top is in a dangerous condition, and should be attended to at once.

Respectfully,

C. G. BYRNE,  
*Chief Engineer.*

## EXHIBIT "C."

## REPORT OF WATER ACCOUNTANT.

HOUSTON, TEXAS, March 1, 1910.

HON. ROBERT L. JONES,  
*Chairman Water Committee,*  
*City of Houston.*

DEAR SIR:—I submit herewith a statement of the revenues and expenses of the Water Department for the fiscal year ending February 28th, 1910.

In reference to the earnings, it should be borne in mind that the Water Department does not receive any credit for the services it renders the city in the way of furnishing water for fighting fire and for street sprinkling purposes.

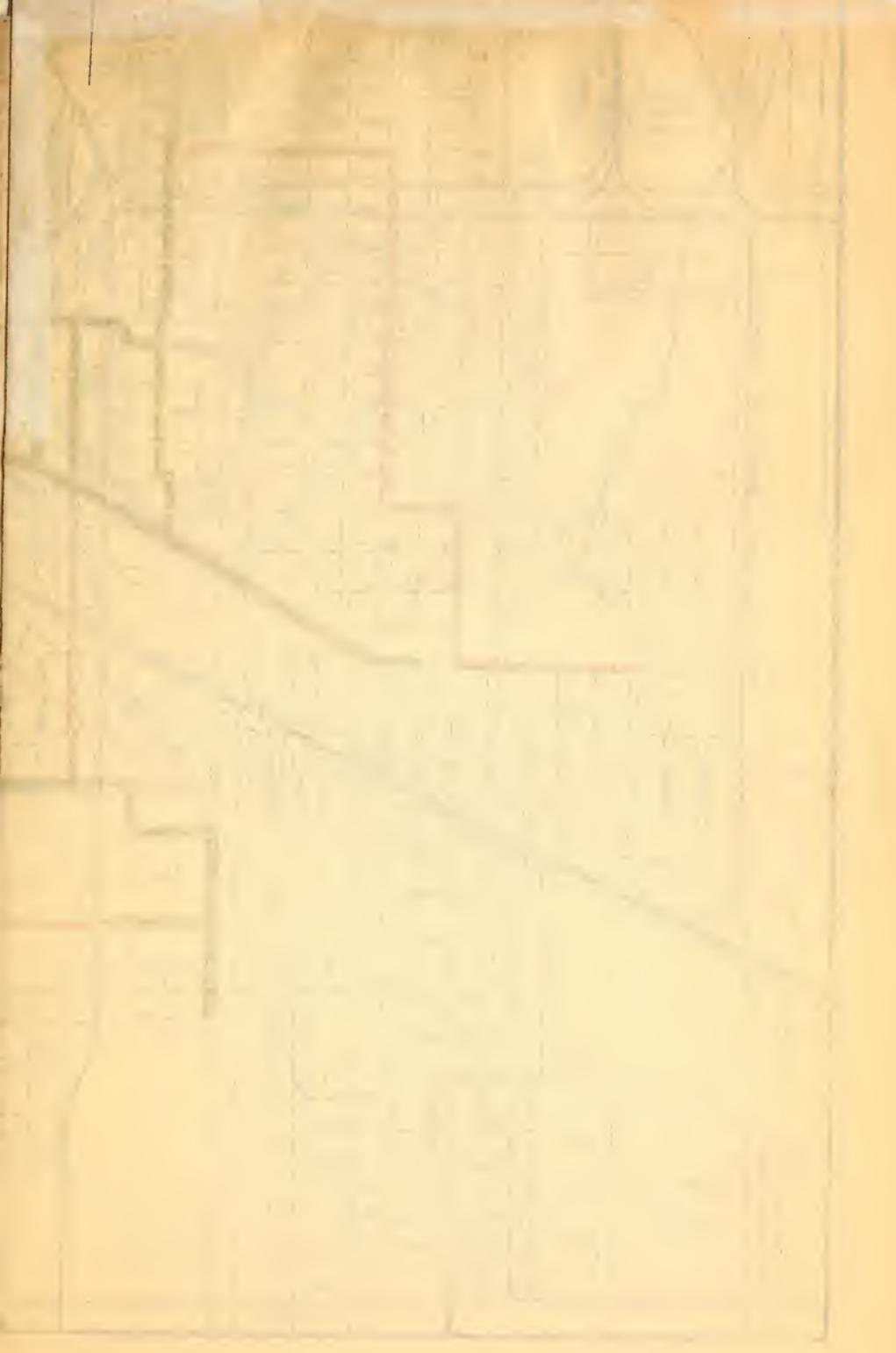
## REPORT AS FOLLOWS.

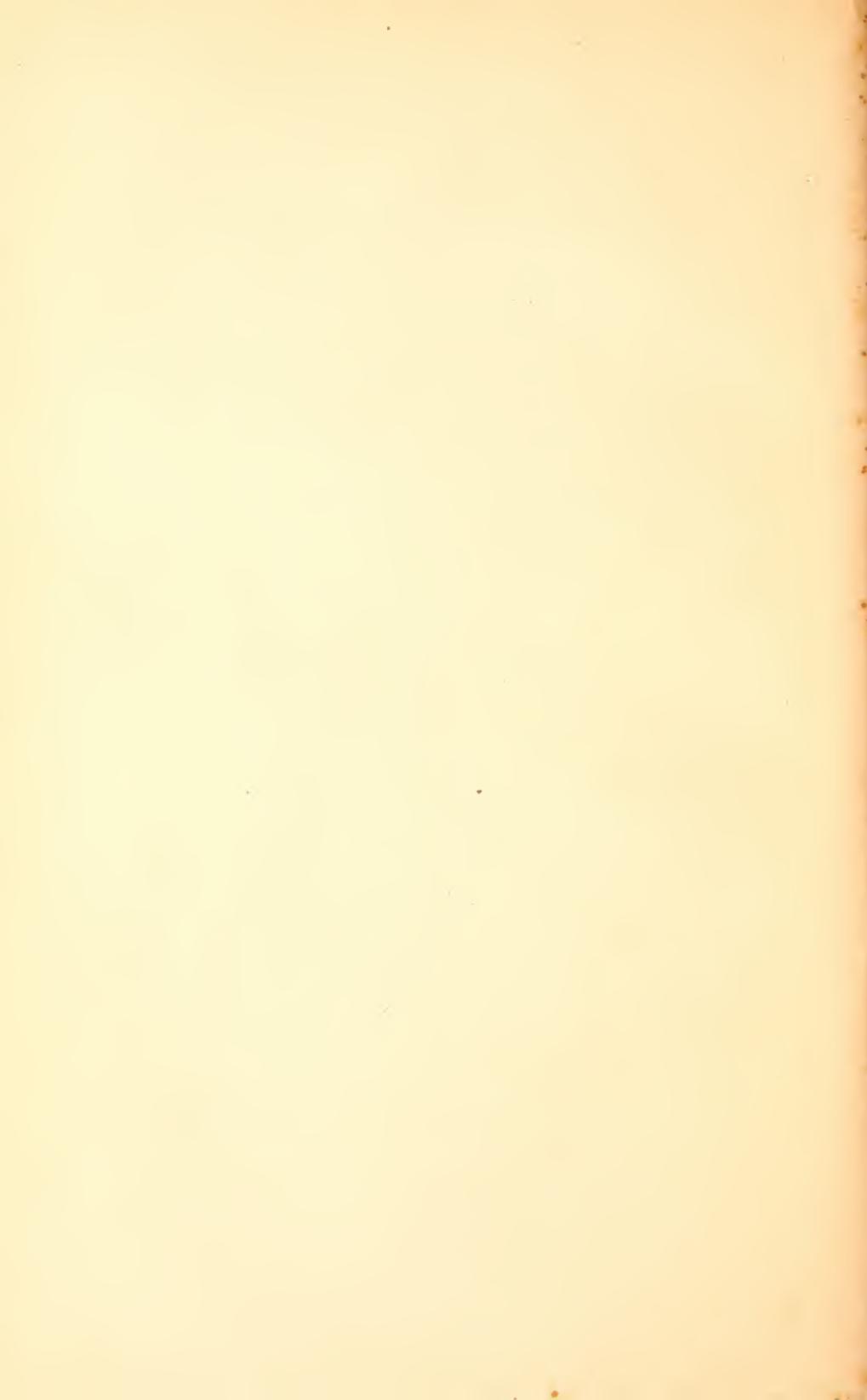
	12 months ending Feb. 28th, 1910.	12 months ending Feb. 28th, 1909.
A. Salaries—operation .....	\$12,736.36	\$11,833.35
B. Fuel .....	36,654.13	32,382.80
C. Lubricating oil, waste and packing.....	1,387.49	1,365.09
D. Machinery repairs .....	3,002.28	1,590.08
E. Building repairs .....	4,442.20	658.22
F. Other expenses at the Pump House.....	1,326.27	175.32
G. Salaries—office force.....	9,971.45	5,110.00
H. Repairs, street service.....	7,182.59	3,155.86
I. Service connections .....	7,788.85	5,401.14
J. Other .....	2,039.54	1,660.10
	<hr/>	<hr/>
	\$86,531.16	\$63,331.96
Extraordinary .....	81,142.99	71,341.43
	<hr/>	<hr/>
Revenue .....	\$209,662.97	\$197,005.48
Bills outstanding.....	40,898.92	54,518.31
Cash receipts.....	223,454.99	

Respectfully submitted,

GEO. R. BRINGHURST,  
*Accountant Water Department.*





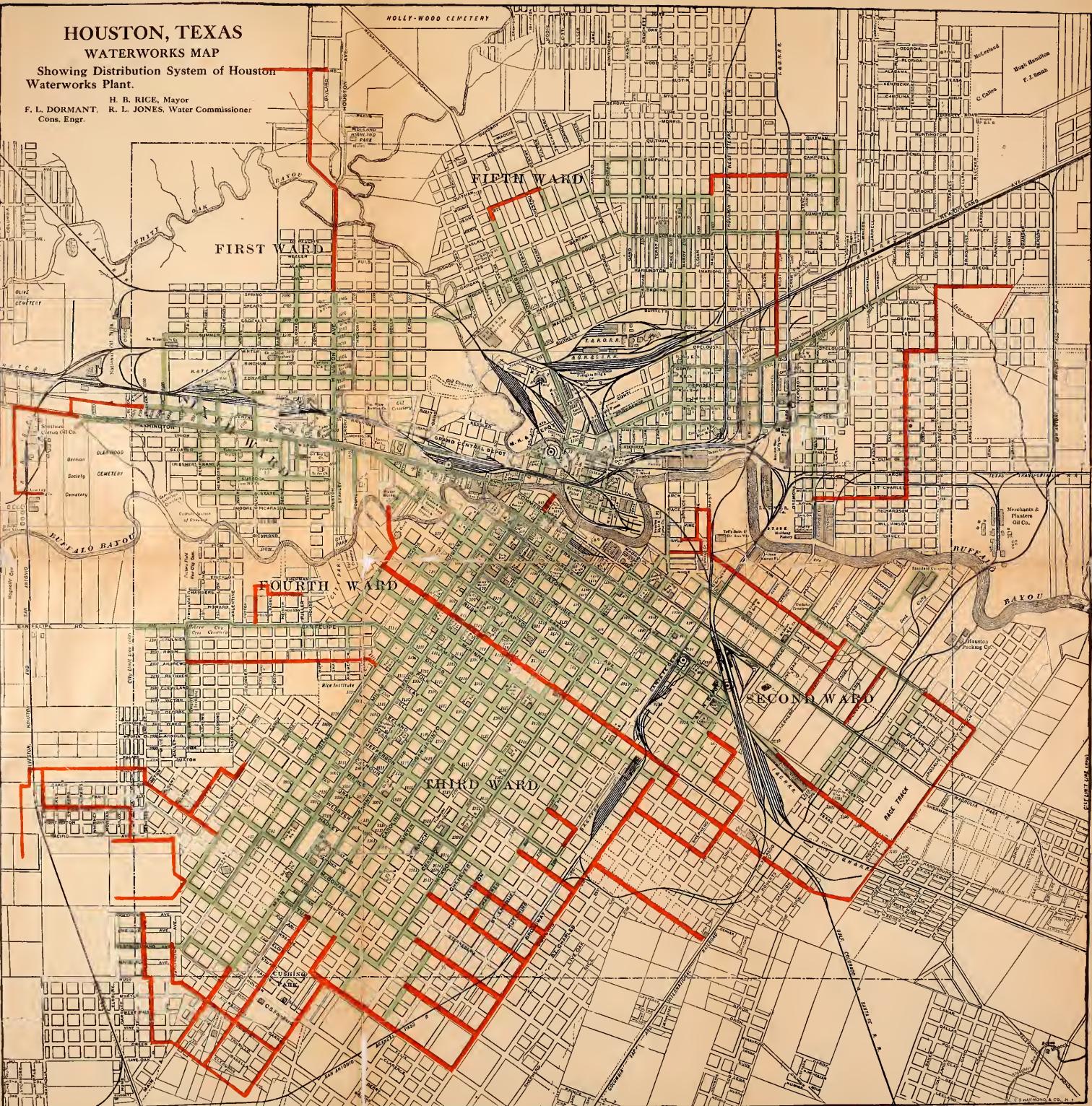


# HOUSTON, TEXAS

## WATERWORKS MAP

Showing Distribution System of Houston  
Waterworks Plant.

H. B. RICE, Mayor  
F. L. DORMANT, R. L. JONES, Water Commissioner  
Cons. Engr.



Green indicates pipes in existence prior to last bond issue.

Red indicates water pipe laid out of last bond issue.

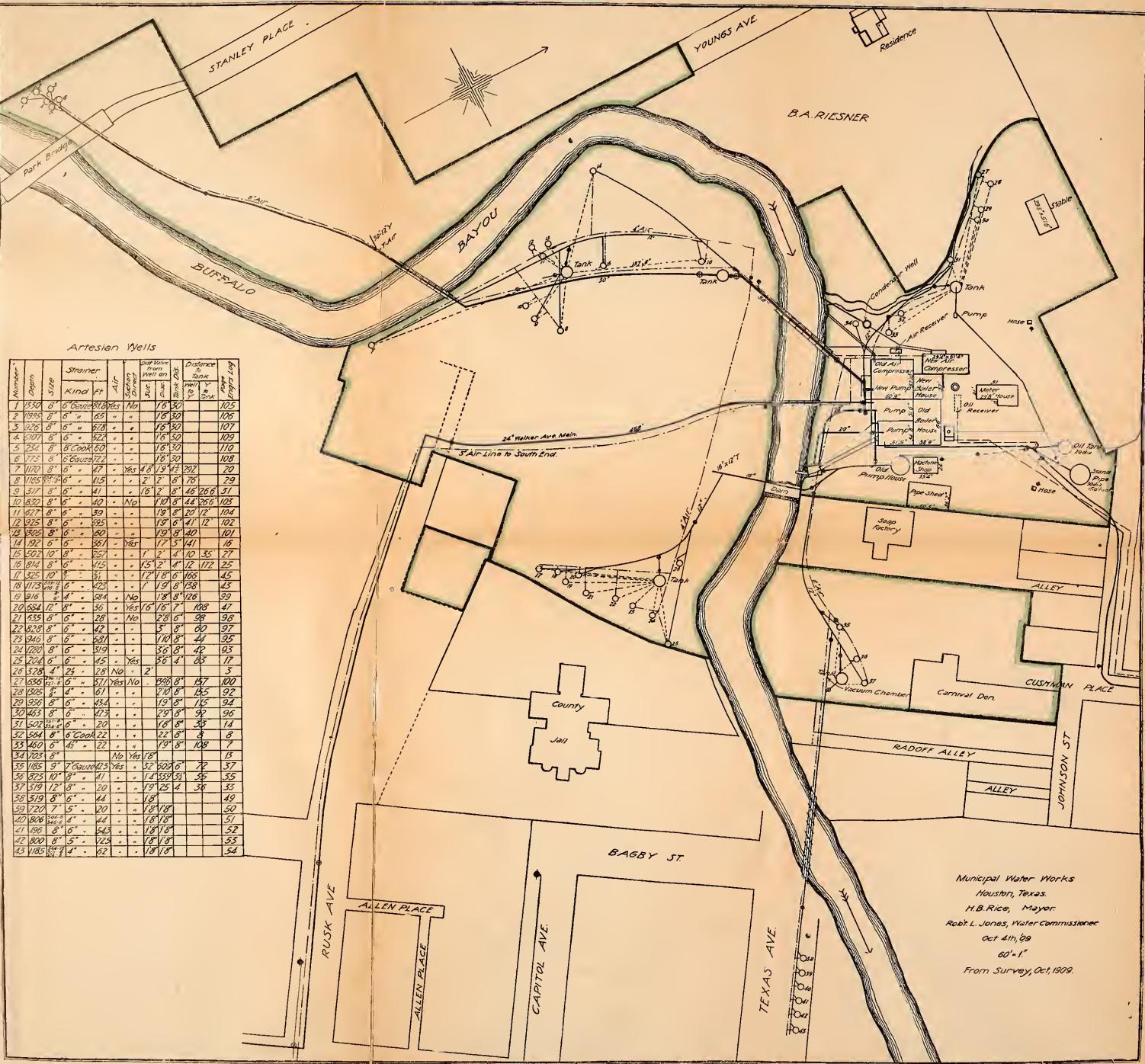


area had a good number of people without formal  
means before just 10 years ago when federal assistance took





ANOTHER OF THE 17TH CENTURY PLANS WHICH SHOWS HOW THE TOWN WAS TO BE Laid Out WITH THE NEWLY ACQUIRED LAND





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## ANNUAL REPORT

OF

**W. J. KOHLHAUFF,**

*CHAIRMAN FIRE COMMITTEE,*

*For the Year Ending February 28, 1910.*

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## REPORT OF FIRE COMMITTEE.

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HOUSTON, TEXAS, March 1, 1910.

TO THE HONORABLE H. B. RICE,  
*Mayor of the City of Houston, Texas.*

DEAR SIR:—I herewith present to you the annual report of the Fire Department for the fiscal year ending February 28, 1910, in accordance with the charter provisions.

This department is now in good shape, all of our fire fighting apparatus having been put in first-class condition and ready for immediate service. During the past year three of our hose wagons have been practically rebuilt, and all of the steamers thoroughly overhauled. Extensive repairs have been made to Engine House No. 7. The comforts of all the men have been carefully looked after.

There was added to the department last year an automobile for the Fire Chief, equipped with two three-gallon fire extinguishers. This machine has proven a valuable addition to this department, and has already paid for itself in the saving of fire losses by its quick arrival upon the scene, when it was possible for the Chief to extinguish the fire long before the arrival of the rest of the department.

We have just received an automobile chemical engine, equipped with two 50-gallon tanks, four 3-gallon extinguishers and extension ladders. It will carry nine men. This machine was built specially for our city, and was designed by myself with the valuable suggestions of Fire Chief Ollre. By comparison with our horse-drawn chemical engine, I am convinced that this new machine will be of great value to this department and to our citizens in the curtailment of property losses.

There has been but one serious accident to the Fire Department during the past year. This occurred to Hose Com-

pany No. 5, on August 28, 1909, at 8:15 p. m., at the Hardy Street crossing of the Texas & New Orleans Railroad Company. While responding to a call from box 517, Hose Company No. 5 collided with a moving switch engine, instantly killing one horse and seriously injuring the other. All five of the men on the hose wagon were injured, one losing his right leg, and another having his left leg fractured, the other three receiving slighter injuries. This is a very dangerous crossing and should be carefully guarded by competent and active flagmen. I am sure if this crossing is properly guarded such accidents can in the future be avoided.

Death has taken from our department John Grace, who, on December 30th, 1909, succumbed to an attack of pneumonia. He was one of our best firemen.

The contract has been let and work begun on the engine house at the corner of Sampson Street and Preston Avenue, to be known as Engine House No. 2. This will be a very handsome structure and when completed and fully equipped will prove of great value to that fast growing portion of our city.

During the coming year an engine house will be built in South End, in close proximity with Fannin Street and Rosalie Avenue; also one on Washington Avenue, near the oil mills. This latter engine house is made necessary by the rapid building in that locality of many large manufacturing establishments. It will require about \$50,000.00 to build and equip these three new houses.

During the past year we have had four large fires, but they were all confined to the buildings in which they originated.

The number of alarms have increased about  $11\frac{1}{2}\%$  over last year. A large majority of these alarms were flue fires.

At present we have in active service 100 men, 25 apparatuses and 46 horses.

This department has been greatly hampered in the past by the large number of overhead wires in the business sec-

tion of the city. These, however, are being rapidly placed underground.

#### RECOMMENDATIONS.

Owing to the increased cost of the necessities of life, including high house rents, and considering the efficiency of the Fire Department, I recommend a slight increase in the salaries of the men, as follows:

	Per Month.
Chief .....	\$200.00
Assistant Chief .....	150.00
Second Assistant Chief.....	110.00
Captain, No. 9.....	100.00
One Clerk .....	80.00
Other Captains .....	90.00
Mechanical Engineer .....	100.00
Veterinary and Engineer.....	100.00
Other Engineers .....	90.00
Chaffeurs .....	90.00
Second year men.....	72.50
First year men.....	65.00

The above salaries are the same as those paid by the other large cities of Texas. We have a fine class of men in the department, and I am sure this will result in retaining them longer, and when they become more valuable through greater experience.

I also recommend that an addition be added to Engine House No. 7, on Milam Street, and that a third size service truck be installed therein. The territory south of the Central Fire Station is built up largely of two-story residences, and hence it is necessary that the truck arrive at a fire early in order that the nozzlemen may be able to reach the roofs of the buildings quicker. The truck from the Central Fire Station now makes this run, and the distance is too great for it to do effective work. The territory beyond Engine House No. 7 is rapidly building up. So the urgent need of a third size truck at this engine house will be readily seen.

I also recommend the purchase of a water tower. The erection of so many tall buildings would make this machine a valuable addition to our department.

Owing to the rapid growth of the city, I would recommend twenty-five additional fire alarm boxes. Several more are badly needed in the business section. The water mains and fire plugs have been extended to a large portion of the outlying districts and these have no fire alarm boxes at all.

I recommend that the appropriation for the Fire Department for the coming year be \$115,000.00.

Respectfully submitted,

W. J. KOHLHAUFF,  
*Fire Commissioner.*

**REPORT OF CHIEF OF FIRE DEPARTMENT.**

HOUSTON, TEXAS, February 28, 1910.

TO THE HON. H. B. RICE, *Mayor*,

and

W. J. KOHLHAUFF, *Fire Commissioner City of Houston, Tex.*

GENTLEMEN:—I have the honor of submitting this my annual report of the Fire Department for the year ending February 28, 1910.

In submitting to you this report I have made only a short account of the progress of the department, owing to the report of Fire Commissioner Kohlhauff, which will cover all details of the workings of the department, showing improvements and recommendations for the coming year.

**APPARATUS.**

During the past year you have added the following new apparatus:

One chief's automobile with two 3-gallon chemical extinguishers and two extra men. The use of this automobile not only enables the head of the department to arrive at fires far in advance of the other apparatus, which in itself not only is of great advantage, but in a great many cases it enables us to extinguish the fire by the use of chemicals, thereby saving water damage.

One automobile chemical engine, which has only been in service about one month, and so far has proven a success far beyond my first estimation of its value. This piece of apparatus at the sounding of an alarm is out and at the fire within one-third less time than it takes the horse-pulled apparatus to make the same run. This has been proven recently, or rather since we have been using the automobile chemical engine, and I wish to say that I am convinced that the use of this type of apparatus will be of great advantage to the department over horse-drawn apparatus.

The fourteen new men recently added to the department has increased the number of men in service to 100 men. This increase has enabled the department to man the ap-

paratus with more efficiency at large fires, which has been demonstrated to the public at the two recent large fires.

I note with much interest that the new fire station for the lower part of the Second and Third Wards is now under construction, and when this house is completed and equipped it will be of great benefit to the people in that locality in the increased efficiency of the department.

I wish to suggest to you the consideration of the purchase of a water tower. This is one of the most valuable pieces of apparatus that a city could have and is a necessity for preventing the spread of fire and protecting adjoining buildings. I have talked this matter over with Fire Commissioner Kohlhauff and wish to concur in his request for the purchase of same at an early date.

#### RECOMMENDATIONS.

The south end of the city is greatly in need of a fully equipped fire station, and I would ask that you kindly consider this at an early date; also a station in the western part of the city near the crossing of Washington Street and the Southern Pacific R. R.

I would recommend that the salaries of the men in the employ of the department be considered for an increase, as the cost of living has so increased that it is a difficult matter to secure good and intelligent men who will stay in our employ and appreciate their positions.

The greater part of the recommendations for the coming year have been gone over with the Commissioner, and I am pleased to report to you that I am in accord with what he recommends and suggests.

#### WATER SUPPLY.

It gives me pleasure to state that the water supply has been greatly increased over last year and that the supply at and during fires has been all that could be expected of any city. However, there yet remains a large demand for more hydrants in certain sections of the city. The officials of the Water Department have been ever ready to render

me assistance at all times, and I wish to extend my thanks to Commissioner Jones and the employees of his department.

#### FIRE ALARM SYSTEM.

The greatly increased number of alarms now received over the fire alarm system clearly demonstrates that the public appreciates the value of sounding alarms from the street box as the more efficient means of calling the department as against the use of the telephone. For this reason, which means considerable saving of time to the department in getting the alarms, I would recommend that the Electrical Department be requested to install as many new and additional fire alarm boxes as can be purchased. The increased number of fire alarm boxes will add greatly to the efficiency of the Fire Department, inasmuch as this will enable us to more promptly and without error receive the alarms.

I wish to extend my thanks to City Electrician George and the Electrical Department for their assistance to myself and the Fire Department, especially for the service rendered by the uninterrupted and perfect-working service of the fire-alarm system under that department.

I also wish to extend my thanks to Chief Ellis and officers of the Police Department for their valued assistance rendered this department at all fires.

In conclusion I wish to extend my thanks to His Honor the Mayor and Fire Commissioner Kohlhauff and the other Commissioners for their valuable assistance in my behalf in the discharge of my duty as Chief of the Fire Department.

Very respectfully submitted,

R. F. OLLRE,

*Chief.*

**Cost of Maintaining and Operating the Fire Department for the  
Fiscal Year Ending February 28, 1910.**

Salaries .....	\$72,120.05
Repairs and renewals of buildings.....	1,230.53
Repairs and renewals of furniture and bedding..	691.05
Repairs and renewals of equipment.....	6,735.54
Live stock, renewal and maintenance.....	9,894.49
Fuel for engines.....	441.10
Lubricants and other engine supplies.....	226.64
Chemicals .....	73.40
Rent .....	9.15
Light and heat.....	2,690.12
Stationery and printing.....	52.30
All other .....	1,067.21
Total .....	\$95,231.58

**Fire Alarms During the Fiscal Year Ending February 28, 1910.**

1909	Box Alarms	Telephone Alarms	Total Alarms	A. M.	P. M.
March.....	20	43	63	27	36
April.....	16	31	47	12	35
May.....	10	17	27	11	16
June.....	8	10	18	5	13
July.....	14	33	47	14	33
August.....	25	61	86	25	61
September.....	16	75	91	39	52
October.....	15	36	51	16	35
November.....	12	22	34	19	15
December.....	24	56	80	33	47
 <b>1910</b>					
January.....	23	62	85	37	48
February.....	20	60	80	26	54
 Totals.....	203	506	709	264	445

**Causes of Fires During the Year Ending February 28, 1910.**

C A U S E	March	April	May	June	July	August	September	October	November	December	January	February	TOTAL
Burning paint off.....	1												1
Cigarette.....			1										1
Candle too near wall.....				1							1		1
Dry kiln overheated.....					1								1
Electric wires crossed.....	1												1
Electric Fan burning.....		1											1
Electric Iron.....							2						2
Flues.....	12	6	3	3	2	1	2	11	38	41	56	175	
False alarm.....	3	3	2	2	3	4	3		2	7	1	30	
Fire Works.....										2			2
Fire Place defective.....											1		1
Furnace.....											1		2
Furnace on floor.....							1		1	1	1		4
Furnace overturned.....		1											1
Furnace smoking.....			1										1
Gasoline stove explosion.....	2			1	1			3			1		8
Gasoline Tank explosion.....								1					1
Gasoline Stove.....							1					3	4
Gasoline Torch.....	1												1
Gasoline.....		2		1	1	2	2	1	1	3			13
Gas, Testing of.....											1		1
Gas Jet.....									1				1
Gas explosion.....									1		1		2
Gas Fixtures, defective.....										1			1
Grass on fire.....	3												3
Gas Stove.....											1		1
Gas Stove, burning grease in.....			1										1
Gas Meter leaking.....					1		1			2	1		5
Heater, Smoking.....		1											1
Heater, Defective.....										1			1
Hot Ashes in box.....					1				1				2
Hot Box ignited.....								1					1
Incendiary origin.....	1	1	1			5		3			3		14
Lightning.....							1						1
Lamp.....		2											2
Lamp explosion.....	1	1			1	2	2	1	1	3	1	1	14
Matches, rats playing with.....	1			1						1			3
Matches, children playing with.....											2		2
Motor on Electric Car.....		1											1
Motor burning out.....							1						1
Outside City limits.....									1		2	1	4
Oil in ditch.....						9	29	34	8		2	1	83
Oil Stove exploded.....						1		1		1	4	2	10
Oil Tank exploded.....						1							1
Paper too near stove.....											1		1
Pot of Grease.....		1					1		1		1	1	5
Pot of Fire Proof Paint.....								1					1
Sparks from flues.....	11	2	3	5	11	8	9	5					54
Sparks from fires.....	3		4	6	2	1	1	40					57
Carried Forward.....	39	22	15	19	33	55	60	69	18	60	67	68	525

## Causes of Fires During the Year Ending February 28, 1910—Cont'd.

C A U S E	March	April	May	June	July	August	September	October	November	December	January	February	TOTAL
Brought Forward .....	39	22	15	19	33	55	60	69	18	60	67	68	525
Sparks from Locomotive.....	..	3	1	..	1	2	6	2	3	1	3	..	22
Stove overheated.....	2	1	..	..	..	..	..	..	..	..	..	..	4
Smoking out Chicken House.....	..	1	..	..	..	..	..	..	..	..	..	..	1
Spontaneous Combustion.....	1	..	..	..	..	..	2	..	2	..	1	..	6
Sulphur Burning.....	..	..	..	..	..	..	..	..	1	..	..	..	1
Trash.....	3	5	..	..	1	10	8	5	2	..	2	..	36
Unknown.....	17	12	12	5	8	17	13	8	18	15	12	9	146
Wiring, defective.....	1	..	..	..	1	2	..	..	..	1	1	..	6
Wire, Live.....	..	..	..	..	..	..	1	..	..	1	..	..	2
Flues, defective.....	3	3	3	..	3	1	4	2	..	..	..	..	19
Awning fire.....	..	..	..	..	..	..	..	..	..	1	..	..	1
Hot iron.....	..	..	..	..	..	..	..	1	..	..	..	..	1
Kerosene, lighting fire with.....	..	..	..	..	..	..	..	1	..	..	..	..	1
Adjoining house.....	1	5	..	..	6	4	6	8	2	3	3	8	46
Airshaft, grease in.....	..	..	..	..	..	..	..	..	..	1	..	..	1
Boiler Explosion.....	..	..	..	..	..	..	..	..	..	..	1	..	1
Auto Gas Tank leaking.....	..	..	..	..	..	..	..	1	..	..	..	..	1
Total.....	67	52	31	24	53	91	98	99	44	85	89	87	820

## Insurance Statistics.

Value of buildings.....	\$3,374,667.00
Value of stock or furniture.....	3,200,108.50
Total value of property involved.....	\$6,574,775.50
Insurance on buildings.....	\$1,850,380.00
Insurance on stock or furniture.....	1,542,110.50
Total insurance on buildings and contents.....	\$3,392,490.50
Damage to insured buildings .....	\$ 195,479.26
Damage to uninsured buildings.....	24,012.50
Damage to insured stock or furniture.....	231,352.70
Damage to uninsured stock or furniture.....	30,148.00
Total damage to buildings and contents.....	\$ 480,992.46

## Number of Water Hydrants in the City.

First Ward .....	59
Second Ward .....	82
Third Ward .....	272
Fourth Ward .....	197
Fifth Ward .....	146
Sixth Ward .....	60
Total .....	816

**Service Performed by the Fire Department During the  
Fiscal Year Ending February 28, 1910.**

COMPANY	Fires Attended	Miles From Station	Feet Hose Used	Feet Ladders Used	Gallons Chemicals Used	Time at Work
Chief's Auto.....	.....	.....	.....	.....	.....	.....
Chemical Auto.....	No. 1	.....	.....	.....	.....	.....
Hose Co.....	No. 1	194	142.50	41,100	24	591 177.25
Hose Co.....	No. 3	114	116.50	22,450	728	42 122.75
Hose Co.....	No. 5	111	97.75	37,100	627	102 124.25
Hose Co.....	No. 6	163	138.25	37,350	384	90 182.00
Hose Co.....	No. 7	103	108.00	29,400	36	39 117.50
Hose Co.....	No. 8	251	252.25	57,100	516	39 254.25
Hose Co.....	No. 9	132	149.00	28,600	68	96 124.75
Hose Co.....	No. 10	180	158.25	41,700	380	41 201.25
Steamer Co.....	No. 1	120	66.25	.....	.....	108.00
Steamer Co.....	No. 2	24	19.50	.....	.....	24.75
Steamer Co.....	No. 5	70	57.00	.....	.....	94.00
Steamer Co.....	No. 6	130	119.50	.....	.....	133.25
Steamer Co.....	No. 7	109	98.00	.....	.....	114.75
Steamer Co.....	No. 8	125	113.75	.....	.....	121.50
Steamer Co.....	No. 9	69	73.50	.....	.....	89.75
Steamer Co.....	No. 10	124	104.50	.....	.....	138.00
Chemical Co.....	No. 4	253	183.50	21,650	188 5,298	130.75
Hook and Ladder						
Truck Co.....	No. 14	191	254.75	.....	4,396	96 171.00
Aerial Truck Co.....	No. 15	24	10.75	.....	460	..... 30.00
Hook and Ladder						
Truck Co.....	No. 16	345	338.25	.....	7,431	102 228.00
Hose Reel, in reserve.....		144	127.00	.....	.....	107.75
Total.....		2,976	2,728.75	317,250	15,238	6,536 2,795.50

**Character of Buildings Damaged During the Year Ending  
February 28, 1910.**

Month	Frame Buildings	Brick Buildings	Other than Buildings
March, 1909 .....	49	9	9
April .....	34	4	14
May .....	23	3	5
June .....	18	3	3
July .....	40	10	10
August .....	43	1	42
September .....	40	3	51
October .....	66	8	18
November .....	35	5	3
December .....	62	13	6
January, 1910 .....	68	6	8
February .....	77	7	3
	555	72	172

## Comparative Statement of Alarms and Number of Men Employed.

Year	No. of Men Employed	No. of Alarms
1898 .....	55	226
1899 .....	55	259
1900 .....	60	298
1901 .....	62	297
1902 .....	59	300
1903 .....	61	258
1904 .....	65	391
1905 .....	65	364
1906 .....	65	396
1907 .....	65	498
1908 .....	83	636
1909 .....	100	709

## Force of the Department for the Year Ending February 28, 1910.

	Amount Per Month	Salary
1 Chief .....	\$200.00	\$ 2,400.00
1 Assistant Chief .....	110.00	1,320.00
2 Captains .....	80.00	1,920.00
7 Captains .....	75.00	6,300.00
19 Drivers .....	70.00	15,960.00
1 Driver .....	65.00	780.00
2 Tillermen .....	70.00	1,680.00
1 Engineer .....	100.00	1,200.00
6 Engineers .....	90.00	6,480.00
1 Chaffeur .....	90.00	1,080.00
2 Stokers .....	70.00	1,680.00
3 Chemical tankmen .....	65.00	2,340.00
1 Clerk .....	75.00	900.00
11 Laddermen .....	65.00	8,580.00
1 Housekeeper (Central) .....	65.00	780.00
1 Housekeeper (Station No. 9) .....	60.00	720.00
40 Pipemen .....	60.00	28,800.00
		\$82,920.00

## Horses in Service, Year Ending February 28, 1910.

	No.
Central Station .....	10
Fire Station No. 3 .....	7
Fire Station No. 5 .....	4
Fire Station No. 6 .....	4
Fire Station No. 7 .....	4
Fire Station No. 8 .....	4
Fire Station No. 9 .....	6
Fire Station No. 10 .....	4
Extra horses, unserviceable .....	3
Total .....	46

**Apparatus.**

We have twenty-seven in service, located at the various stations, as follows:

Apparatus.	No.	Location.
1 Combination hose wagon.....	1	Central Station
1 Second size La France steamer.....	2	Central Station
1 First size Continental steamer.....	1	Central Station
1 Hose wagon .....	3	Fire Station No. 3
1 Double 60-gallon Holloway chemical.....	4	Fire Station No. 3
1 Hose wagon .....	5	Fire Station No. 5
1 Third size La France steamer.....	5	Fire Station No. 5
1 Hose wagon .....	6	Fire Station No. 6
1 Fourth size La France steamer.....	6	Fire Station No. 6
1 Hose wagon .....	7	Fire Station No. 7
1 Fourth size La France steamer.....	7	Fire Station No. 7
1 Hose wagon .....	8	Fire Station No. 8
1 Third size Clapp & Jones steamer.....	8	Fire Station No. 8
1 Hose wagon .....	9	Fire Station No. 9
1 Fourth size Continental steamer.....	9	Fire Station No. 9
1 Hose wagon .....	10	Fire Station No. 10
1 Fourth size La France steamer.....	10	Fire Station No. 10
1 Preston hook and ladder.....	14	Fire Station No. 9
1 Hayes Aerial 75-foot extension ladder.....	15	Central Station
1 Seagrave hook and ladder.....	16	Central Station
1 Chief's buggy .....		Central Station
2 Assistant Chiefs' buggies.....		Central Station
1 hose reel (in reserve).....		Central Station
1 Supply wagon .....		Fire Station No. 3
1 Chief's automobile .....		Central Station
1 Chemical automobile .....	1	Central Station

**Size and Dimensions of Steam Fire Engines and Date Placed in Service.**

Date Placed in Service	Steamer No.	Make	Size	Boiler	Cylinder Steam	Pumps	Stroke	Capacity of Water per Minute
1908	1	Continental.....	1st	36x72	9	5 $\frac{1}{2}$	8	900
1895	2	La France.....	2d	33x60	7 $\frac{3}{4}$	4 $\frac{1}{2}$	9	700
1894	5	La France .....	3d	30x62	7 $\frac{1}{4}$	4 $\frac{1}{4}$	8	600
1901	6	La France.....	4th	28x72	6 $\frac{3}{4}$	4	7	500
1901	7	La France.....	4th	28x72	6 $\frac{3}{4}$	4	7	500
1896	8	Clapp & Jones.....	3d	30x62	7	4 $\frac{1}{4}$	8	600
1908	9	Continental .....	4th	30x66	6 $\frac{1}{2}$	4	8	500
1901	10	Metropolitan— American make..	4th	30x60	6 $\frac{1}{2}$	4	7	500

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**ANNUAL REPORT**

OF

**JACK KENNEDY,**

*CHAIRMAN STREET AND BRIDGE  
COMMITTEE*

*For the Year Ending February 28, 1910.*

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## REPORT OF STREET AND BRIDGE COMMITTEE.

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HOUSTON, TEXAS, March 1, 1910.

HON. H. B. RICE,  
*Mayor City of Houston.*

DEAR SIR:—I herewith respectfully submit to you the annual report of the Street and Bridge Department.

This has been a very busy year for this department, owing to the great amount of improvements which required our attention in the newly settled territory and in the new additions to the city which have been opened in the last year.

The work in the new additions to the city consists of opening and grading new streets, the laying of bridges and foot crossings, and opening new ditches. During the year particular attention has been given to localities where the absence of sewerage system causes standing of surface water, and ditches have been opened to drain these localities.

Special attention of this department has also been given to the keeping of paved streets of the city clean, by thoroughly sweeping them and hauling the dirt away, and I trust that this particular work has met with your approval and of the citizens in general.

A force of three carts has been kept in constant employment for the purpose of keeping holes repaired in graveled and dirt streets and hauling off the dirt taken out of ditches on the graveled and shelled streets.

The following list shows the streets which are swept every night:

Main Street, from Franklin to Berry Avenue.  
Travis Street, from Franklin to Dallas Avenue.  
Milam Street, from Franklin to McKinney Avenue.  
Fannin Street, from Franklin to McKinney Avenue.  
San Jacinto Street, from Commerce to McKinney Avenue.  
Congress Avenue, from Milam to Caroline Street.  
Franklin Avenue, from Louisiana to Austin Street.  
Preston Avenue, from Austin to Washington Avenue.  
Prairie Avenue, from Milam to Caroline Street.  
Texas Avenue, from Milam to Caroline Street.  
Capitol Avenue, from Milam to Caroline Street.  
Rusk Avenue, from Milam to Caroline Street.  
Walker Avenue, from Milam to Caroline Street.  
Willow Street, from San Jacinto Street bridge to Walnut Street.

The following list shows the streets which are swept three times weekly:

Congress Avenue, from Caroline to I. & G. N. Depot.  
Franklin Avenue, from Austin to Chartres Street.  
Texas Avenue, from Caroline to Hamilton Street.  
McKinney Avenue, from Bagby to Chartres Street.  
Washington Ave., from Louisiana Street bridge to Tenth Street.

Streets swept weekly:

Liberty Avenue.  
McKee Street.  
Conti Street.  
Odin Avenue.  
Lyons Avenue.  
Hardy Street, from Conti to Noble Street.  
Washington Avenue, from Tenth to Brashear Street.  
Houston Avenue, from Washington to Spring Street.  
San Jacinto Street, from McKinney to Leeland Avenue.  
Leeland Avenue, from Louisiana to Crawford Street.  
McGowen Avenue, from Milam to Crawford Street.  
Crawford Street, from Commerce to McGowen Avenue.  
Montgomery Avenue, from Wood to James Street.  
Sabine Street, from Washington to Sabine Street bridge.  
Heiner Street, from Sabine Street bridge to San Felipe Street.  
Preston Avenue, from Austin to I. & G. N. tunnel.

The following is a list of new streets which have been graded and opened during the past year:

Seneca Street, from Calhoun to Harby Street.  
Milby Street, from Dallas to Harby Street.  
Hussion Street, from Dallas to Harby Street.  
Harby Street, from Milby to Hussion Street.  
York Street, from Commerce to Engelke Street.  
Saltus Street, from Buffalo to Live Oak Street.  
Live Oak Street, from Saltus to German Street.  
Churchill Street, from Mary to Boundary Street.  
Marie Street, from Montgomery to Thomas Street.  
Thomas Street, from Paschall to Rosalie Street.  
Quitman Street, from Cochran to Depenbrook Street.  
Depenbrook Street, from Quitman to Boundary Street.  
Sage Street, from Houston Avenue to 2 blocks west.  
Winnie Street, from Montgomery to Thomas Street.  
Fox Street, from Rosalie to Hutcheson Street.  
Rosalie Street, from Runnels to Buffalo Bayou.  
Kennedy Street, from Rosalie to Hutcheson Street.  
Ball Street, from Rosalie to Hutcheson Street.  
Morris Street, from Montgomery to Depenbrook Street.  
Gregg Street, from Lyons Avenue to Market Street.  
Stanford Street, from Fairview to Pacific Avenue.  
Freeman Street, from Paschall to Quitman Street.  
Ovid Street, from Johnson to Colorado Avenue.  
Orrine Street, from Harrisburg Road to 4 blocks north.  
Morgan Street, from Fairview to Dennis Avenue.  
Freund Street, from Rosalie to Hutcheson Avenue.  
Winnie Street, from Montgomery to Thomas Street.  
Connor Street, from Rugeley to S. A. & A. P. R. R.  
Congress Street, from Shepherd to Velasco Street.  
Factory Street, from Preston to Commerce Street.  
Greeley Street, from Rugeley to S. A. & A. P. R. R.  
Terry Street, from Rugeley to Second Street.  
Kyle Street, from Rugeley to Second Street.  
Second Street, from Jack to Connor Street.  
Third Street, from Jack to Terry Street.  
Rugeley Street, from Kyle to S. P. R. R.  
White Street, from State to Moore Street.  
Palmer Street, from McKinney to Dallas Avenue.  
Dowling Street, from McKinney to McGowen Avenue.  
Worms Street, from S. P. R. A. south to Odin Avenue.  
Green Street, 2 blocks.  
Oats Street, between Dechaumes Street and Milby.

Bringhurst Street, 2 blocks.

Capron Street, between S. P. R. R. and Lyons Avenue.

Carl Street, between Depenbrook and Mootgomery.

Old Houston Avenue.

The gully on Kansas Street between Ingram's Gully and Raliroad has been filled in.

The following shows new bridges which have been built during the past year:

2 bridges in the Pastoriza addition.

1 bridge across gully on Gregg Street.

1 bridge across gully on Kansas Street.

The following is the total bridge and foot crossings laid down during the past year:

During the month of—	Bridges.	Foot Crossings.
March, 1909 .....	162	85
April .....	76	37
May .....	94	33
June .....	74	6
July .....	115	40
August .....	128	26
September .....	52	51
October .....	121	51
November .....	129	112
December .....	70	119
January, 1910.....	44	34
February .....	29	56
Total .....	1,094	650

During the past year have also put in 31 aprons and 19 drains.

I wish to mention that since the installation of the Inspector, whose duty it is to see that all of the openings in the streets for gas, light and sewers are repaired and left in good condition, by the firms or parties who make such openings, the city has made a large saving by not having to do the repairing itself as heretofore. When it becomes necessary to open a pavement or dirt street for any purpose, the individual or corporation desiring to make the opening is required to make an application to the department showing the location, nature and extent of the opening desired,

and a deposit is also made to cover the estimated cost of repairs for said opening. A permit is then issued and the inspector assigned to the work. Immediately on the completion of the work, an order is issued to parties to put same back in as good condition as it was before opening. The result is apparent.

The following shows the openings made in the streets for gas, light and sewers:

	Openings.
Sewers .....	265
Gas .....	870
Other openings .....	243

I would also like to mention the following gutters, centrally located, which are flushed daily:

Main Street, from Commerce to Walker Avenue.  
 Travis Street, from Commerce to Walker Avenue.  
 Milam Street, from Commerce to Walker Avenue.  
 Louisiana Street, from Commerce to Walker Avenue.  
 Fannin Street, from Commerce to Walker Avenue.  
 San Jacinto Street, from Commerce to Walker Avenue.  
 Caroline Street, from Commerce to Walker Avenue.  
 Congress Avenue, from Smith to Caroline Street.  
 Franklin Avenue, from Smith to Caroline Street.  
 Commerce Avenue, from Smith to Caroline Street.  
 Preston Avenue, from Smith to Caroline Street.  
 Prairie Avenue, from Smith to Caroline Street.  
 Texas Avenue, from Smith to Caroline Street.  
 Capitol Avenue, from Smith to Caroline Street.  
 Rusk Avenue, from Smith to Caroline Street.  
 Walker Avenue, from Smith to Caroline Street.

The following shows sewers laid by this department in the past year:

Laid sewer and filled in gully on Houston Avenue, opposite San Jacinto Park.  
 Laid sewer on Walnut Street.  
 Laid sewer on White Street.  
 Laid sewer on Hutcheson Street.  
 Laid sewer on Heiner Street.  
 Also built a culvert on the corner of Commerce and Shepherd.

**Improvements made at the city stables in the past year:**

- Laid 400 feet of sewer to drain the barn.
- Built 2 new sheds for the sweeping and sprinkling machines.
- Built a 2-story addition to the barn.
- Built addition to the barn, giving sufficient room for 6 teams.
- Remodeled all the sheds.

**Improvements made at the city park by this department:**

- Laid 300 feet of sewer.
- Built 4 catch-basins.
- Shelled roadway and sidewalks.
- Built the fence around the Park.
- Erected a stand for the search-light.
- Painted the Park fence.
- Painted the Park bridge.

The following work, while the expense was not charged to this department, nevertheless the work was done under the supervision of this department.

- Filling of the Woodland Heights School yard.
- Filling of the Lamar School yard.
- Filling of the Cascara School yard.
- Filling at the wharf.

In the past year this department purchased twenty-two head of mules, and wish to mention that by having its own teams, the city nets a larger saving in the expense than by employing teams and teamsters as under the old method, and herewith give a list of mules and machinery purchased by the city:

22 head of mules.....	\$5,745.00
2 squeegees, or street-washing machines.....	2,643.12
3 street sprinklers .....	1,189.05
18 street cans and 3 carriers.....	195.00
5 sets of harness.....	200.00

I regret to say that three head of mules died with lock-jaw, and two head died suddenly.

We have at the city stables at present the following stock and wagons:

- 68 head of mules.
- 24 wagons.
- 5 sweeping machines.
- 6 sprinkling machines.
- 2 squeegees, or street-washing machines.
- 34 sets double harness.
- 2 single sets harness.

#### DISBURSEMENTS FOR THE YEAR 1909.

I herewith beg to give you an itemized account of the entire expense of this department for the year ending February 28, 1910.

You will notice in the expense account of the department I have deducted the amount of \$1,659.13, which amount has been paid by the Houston Electric Company as their portion of the expense in repairing the city bridges on which the company operates cars.

Also have deducted the amount of \$2,291.45, which amount was expended by the City Engineer's Department, but was charged to the Street and Bridge Department.

<i>General Foremen, Inspectors and Clerks—</i>	
Salary .....	\$ 3,470.60
<i>Equipments—</i>	
Supplies .....	2,471.03
Blacksmith .....	2,729.70
Broom maker .....	709.66
Lumber .....	16.04
Harness .....	277.29
Freight .....	7.40
Electric wiring, salary.....	10.50
<i>Bridges—</i>	
Bridge gang .....	9,543.96
Painting bridges .....	56.72
Bridge tenders .....	3,600.00
Lumber .....	13,980.87
Miscellaneous .....	57.38
Repairs .....	77.49
Supplies .....	455.25
<i>Live Stock—</i>	
Foreman .....	1,593.45
Watchman .....	126.00
Feed .....	9,144.19
Miscellaneous .....	190.65

*Street Cleaning—*

Flushing .....	1,985.00
Oiling ditches .....	463.85
Business district .....	5,780.10
Sprinkling .....	2,180.00
Tunnel man .....	1,890.90
Keeping paved-street drains open.....	1,470.40
Cleaning paved streets.....	12,326.70
Sweeping at night.....	3,646.40
Cutting weeds during summer.....	213.20
Miscellaneous .....	40.30
Telephone .....	5.00

*Street Repairing—*

Ditching .....	16,576.22
Teamsters filling holes.....	358.40
Brick work, fixing culverts.....	192.67
Convict teams and guards.....	3,034.75
Pavers .....	946.51
Grading .....	4,176.95
Carts filling holes on paved streets.....	2,830.34
Supplies .....	77.40
Spreading shell .....	337.54
Miscellaneous .....	6.45
Engineer department.....	875.20

*Other Expense—*

Miscellaneous .....	379.91
Telephone .....	50.00
Electric lights .....	62.60
Watchman .....	409.50
Engineer department.....	135.05
Insurance on barn.....	121.00

*Extraordinary—*

Salary .....	2,962.17
Supplies .....	4,470.44
Lumber .....	1,155.74
Freight .....	70.17
Purchase of street can and carriers.....	195.00
Purchase of mules.....	5,745.00
Engineer department.....	1,281.20
Purchase of sweeping machines.....	1,189.05
Purchase of sprinkling machines.....	1,310.12
Purchase of harness.....	200.00
Grading and widening streets.....	796.05

TOTAL EXPENSE ..... \$128,455.46

**CREDIT.**

Expended by Engineer's Department and charged to Street and Bridge Department .....	\$2,291.45
Refunded by Houston Electric Co., their portion of expense repairing bridges, on which they operate cars .....	1,659.13
	3,950.58

Net expense of Street and Bridge Department ..... \$124,504.88

The following shows the amount expended on the bridges during the past year:

Louisiana Street bridge.....	\$1,380.24
San Jacinto Street bridge.....	942.32
Crocket Street bridge.....	820.80
Sabine Street bridge.....	597.10
Fannin Street bridge.....	342.60
White Oak Bayou bridge.....	243.37
Preston Street bridge.....	245.54
Beauchamp Springs bridge.....	286.33
Hill Street bridge.....	237.00
Clinton Road bridge.....	113.44
Houston Avenue bridge.....	56.40
Franklin Street bridge.....	102.17
Milam Street bridge.....	34.70
McKee Street bridge.....	29.80
Total .....	\$5,431.81

I respectfully recommend that the main pier at the McKee Street bridge, upon which the draw works, be reinforced. This pier has been sinking and throwing the draw out of line and it is a source of annoyance and a great expense to keep it working in its present condition.

I also recommend that a large increase in the budget allowance be made for the ensuing year in the Street and Bridge Department, commensurate with the rapid growth and extension of the city.

Respectfully submitted,

J. KENNEDY,  
*Street and Bridge Commissioner.*

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ANNUAL REPORT

OF

DAN C. SMITH, JR.,

*CITY CONTROLLER,*

*For the Year Ending February 28, 1910.*

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## REPORT OF CITY CONTROLLER.

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HOUSTON, TEXAS, March 7, 1910.

*To the Honorable Mayor and City Council of the City of Houston.*

GENTLEMEN:—I herewith submit to you my annual report for the fiscal year ending February 28, 1910, which embraces the following exhibits and schedules of detail, to-wit:

Exhibit "A":

### SCHEDULE.

- No. 1. Property and improvements.
- No. 2. Outstanding bills for collection.
- No. 3. Warrants outstanding.
- No. 4. Special deposits repayable.
- No. 5. Bonded debt.

Exhibit "B," revenue and expense for the years ended February 28, 1910 and 1909:

### SCHEDULE.

- Nos. 1 and 2. Revenues classified and compared.
- Nos. 2, 3 and 4. Expenses classified and compared.
- No. 5. Disbursements general fund for permanent improvements.

Exhibit "C," itemized statement of miscellaneous improvements.

Exhibit "D," statement of bond fund disbursements.

Exhibit "E," cash receipts and disbursements for the fiscal year ended February 28, 1910.

Exhibit "F," statement of departmental expenses for the year ended February 28, 1910, with the appropriations made therefor.

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I wish to call your attention to Schedule No. 3 of Exhibit "A," which is an itemized statement of warrants outstanding February 28, 1910, amounting to \$73.10. I did my utmost to eliminate this schedule entirely, but the parties in whose favor these warrants were drawn failed to present them for payment at bank, before the close of our fiscal year as requested.

You will also note by my report that the city has no current liability, except what is provided for by cash in bank.

Respectfully submitted,

DAN C. SMITH, JR.,  
*Controller.*

**Comparative General Balance Sheet, February 28, 1910 and 1909.****ASSETS.****AVAILABLE:**

<i>Cash—</i>	February 28, 1910.	February 28, 1909.	Increase or Decrease
In hands of City Treasurer:			
General Fund .....	\$ 17,696.67	\$ 22,062.69	*\$ 4,366.02
Bond Funds:			
Paving .....	35,223.82	33,910.65	~ 1,313.17
Water Mains .....	.....	104,129.17	* 104,129.17
Wharfs and Slips.....	88,429.11	156,193.75	* 67,764.64
Drainage Sewers .....	186,759.66	234,291.14	* 47,531.48
Sanitary Sewers .....	182,259.74	234,291.14	* 52,031.40
School Fund .....	1,695.69	* 6,804.05	8,499.74
Special Deposit Fund.....	1,101.70	541.70	560.00
Water Department Fund.....	10,835.23	6,610.13	4,225.10
TOTAL .....	\$ 524,001.62	\$ 785,226.32	*\$261,224.70
Cash in Other Hands:			
Board of Liquidation.....	\$ 53,123.44	\$ 51,980.80	\$ 1,142.64
Assessor and Collector.....	4,939.76	53,999.16	* 49,059.40
Police Department.....	* 25.11	* 114.26	89.15
Scavenger Department .....	.....	4.50	* 4.50
Electrical Department .....	17.50	98.90	* 81.40
Market Master .....	.....	523.00	* 523.00
TOTAL .....	\$ 58,055.59	\$ 106,492.10	*\$ 48,436.51
Working Funds:			
City Attorney .....	\$ 25.00	\$ 25.00	.....
Delinquent Tax Department.....	.....	25.00	* 25.00
Assessor and Collector.....	650.00	650.00	.....
Police Department .....	50.00	50.00	.....
Water Department .....	50.00	50.00	.....
TOTAL .....	\$ 775.00	\$ 800.00	*\$ 25.00
TOTAL CASH IN OTHER HANDS....	\$ 58,830.59	\$ 107,292.10	*\$ 48,461.51
GRAND TOTAL CASH.....	\$ 582,832.21	\$ 892,518.42	*\$309,686.21
<i>Accounts Receivable—</i>			
Taxes in hands of Assessor and Collector .....	\$ 380,769.78	\$ 430,729.26	*\$ 49,959.48
Other items in hands of Collector			
for collection .....	185.75	168.75	17.00
Bills for Collection (Sched. No. 2) ..	4,530.37	9,753.10	* 5,222.73
Water Department Bills.....	40,898.92	54,518.31	* 13,619.39
Scavenger Department Bills.....	1,365.95	953.45	412.50
Miscellaneous Land Notes.....	.....	12,500.00	* 12,500.00
State of Texas "School Fund".....	2,531.21	2,090.79	440.42
TOTAL ACCOUNTS RECEIVABLE.....	\$ 430,281.98	\$ 510,713.66	*\$ 80,431.68
TOTAL AVAILABLE ASSETS.....	\$1,013,114.19	\$1,403,232.08	*\$390,117.89
<i>NOT AVAILABLE:</i>			
Property and Improvements (Schedule No. 1) .....	\$6,973,325.46	\$6,248,255.66	\$725,069.80
Sinking Fund (Harris County Bonds) .....	120,220.00	90,836.00	29,384.00
Stock Supplies (Horse Feed) .....	286.55	.....	286.55
TOTAL ASSETS .....	\$8,106,946.20	\$7,742,323.74	\$364,622.46

\*Decrease.

**Exhibit "A".**

(Continued)—1.

**Comparative General Balance Sheet, February 28, 1910 and 1909.****LIABILITIES.**

CURRENT:	February 28, 1910.	February 28, 1909.	Increase or decrease
Warrants outstanding (Sched. No. 3). . . . .	\$ 76.31	\$ 14,784.29	*\$ 14,707.98
Audited Vouchers . . . . .		37,532.48	* 37,532.48
Interest Accrued on Bond Debt, not due . . . . .	57,818.62	55,656.12	2,162.50
Special Deposits (Sched. No. 4) . . . . .	2,595.40	4,595.40	* 2,000.00
Miscellaneous . . . . .		1,444.64	* 1,444.64
Unclaimed Wages . . . . .	640.58		640.58
TOTAL CURRENT LIABILITIES. . . . .	\$ 61,130.91	\$ 114,012.93	*\$ 52,882.02
BONDED DEBT (Schedule No. 5) . . . . .	\$4,819,000.00	\$4,719,000.00	\$100,000.00
WATER WORKS MORTGAGE. . . . .	\$ 467,000.00	\$ 467,000.00	.....
CERTIFICATES OF IND'BT'NESS (Storrie) . . . . .	\$ 10,300.00	\$ 20,900.00	*\$ 10,600.00
REFUND PAVING CERTIFICATES. . . . .	\$ 254,498.25	\$ 278,451.16	*\$ 23,952.91
TOTAL LIABILITIES . . . . .	\$5,611,929.16	\$5,599,364.09	\$ 12,565.07
EXCESS OF ASSETS OVER LIABILITIES. . . . .	\$2,495,017.04	\$2,142,959.65	\$352,057.39
TOTAL . . . . .	\$8,106,946.20	\$7,742,323.74	\$364,622.46

\*Decrease.

**Exhibit "A".**

(Concluded)—2.

**Property and Improvements, February 28, 1910 and 1909.**

	February 28, 1910.	February 28, 1909.	Increase or decrease
Legal Department:			
Law Library .....	\$ 824.10	\$ 726.00	\$ 98.10
Assessor and Collector:			
Stewart Block Book System.....	\$ 10,000.00	\$ 10,000.00	.....
City Hall and Market House.....	\$ 642,022.20	\$ 642,022.20	.....
Furniture and Fixtures.....	873.67	209.75	\$ 663.92
TOTAL .....	\$ 642,895.87	\$ 642,231.95	\$ 663.92
Police Department:			
City Jail .....	\$ 52,099.00	\$ 52,099.00	.....
Automobile .....	2,167.60	2,167.60	.....
Motor Cycles .....	1,037.43	.....	\$ 1,037.43
Bertillon System .....	891.00	.....	891.00
TOTAL .....	\$ 56,195.03	\$ 54,266.60	\$ 1,928.43
Fire Department:			
Central Station .....	\$ 92,910.11	\$ 92,910.11	.....
Hose Company No. 1.....	7,648.50	7,648.50	.....
Fire Station No. 2 .....	50.00	.....	\$ 50.00
Fire Station No. 3 .....	10,182.81	9,677.35	505.46
Fire Station No. 5 .....	13,528.50	13,528.50	.....
Fire Station No. 6 .....	11,031.13	10,481.13	550.00
Fire Station No. 7 .....	14,281.44	13,595.24	686.20
Fire Station No. 8 .....	14,425.00	14,425.00	.....
Fire Station No. 9 (old).....	10,768.50	10,768.50	.....
Fire Station No. 9 (new).....	21,249.77	21,191.81	57.96
Fire Station No. 10.....	15,124.00	15,124.00	.....
Fire Station, Harrisburg Road.....	2,200.00	.....	2,200.00
Automobile .....	1,480.27	.....	1,480.27
TOTAL .....	\$ 214,880.03	\$ 209,350.14	\$ 5,529.89
Electrical Department:			
Fire Alarm Telegraph.....	\$ 34,045.04	\$ 18,987.11	\$ 15,057.93
Automobile .....	1,395.00	.....	1,395.00
TOTAL .....	\$ 35,440.04	\$ 18,987.11	\$ 16,452.93
Health Department:			
Smallpox Camp .....	\$ 624.50	\$ 624.50	.....
Scavenger Department .....	\$ 3,400.00	\$ 3,400.00	.....
Street and Bridge Department.....	\$ 57,521.06	\$ 38,062.22	\$ 19,458.84
City Stables .....	2,686.43	2,686.43	.....
Opening Streets .....	28,874.46	27,829.46	1,045.00
Bridges .....	63,456.48	61,850.00	1,606.48
TOTAL .....	\$ 152,538.43	\$ 130,428.11	\$ 22,110.32
Garbage Department .....	\$ 4,138.76	\$ 4,138.76	.....
Sewer Department:			
Sanitary System—pumping station....	\$ 70,935.21	\$ 70,935.21	.....
Sanitary System—filter beds.....	111,761.76	111,761.76	.....
Sanitary System—intercepting .....	137,053.98	137,053.98	.....
Sewers, subsequent to Jan. 1, 1899....	238,634.40	183,708.42	\$ 54,925.98
Drainage sewers .....	47,531.48	.....	47,531.48
TOTAL .....	\$ 605,916.83	\$ 503,459.37	\$ 102,457.46
Asphalt Plant .....	\$ 3,000.00	.....	\$ 3,000.00
FORWARD .....	\$ 1,729,853.59	\$ 1,577,612.54	\$ 152,241.05

\*Decrease.

**Exhibit "A"—Schedule No. 1.**

(Continued)—1.

**Property and Improvements, February 28, 1910 and 1909.**

(CONTINUED.)

	February 28, 1910.	February 28, 1909.	Increase or Decrease
AMOUNT BROUGHT FORWARD.....	\$ 1,729,853.59	\$ 1,577,612.54	\$152,241.05
Schools:			
High School.....	\$ 226,638.58	\$ 167,925.89	\$ 58,712.69
Rusk .....	25,400.00	25,400.00	.....
Longfellow .....	175,000.00	175,000.00	.....
Fannin .....	68,122.98	68,122.98	.....
Taylor .....	22,587.50	22,587.50	.....
Dow .....	23,544.60	20,583.00	2,961.60
Hawthorne .....	29,700.00	29,700.00	.....
Cascara .....	40,219.70	39,800.00	419.70
Jones .....	36,612.30	36,126.00	486.30
Allen (site donated).....	46,528.77	46,528.77	.....
Austin .....	26,898.75	26,898.75	.....
Lubbock .....	48,147.18	48,147.18	.....
Reagan .....	44,513.74	44,513.74	.....
Beauchamp Springs.....	470.00	470.00	.....
Site (Washington St.).....	5,000.00	5,000.00	.....
Woodland Heights.....	39,604.83	21,596.25	18,008.58
Lamar .....	55,269.68	50,091.48	5,178.20
High School (colored).....	32,450.00	32,450.00	.....
Bingham Street (colored).....	4,893.50	4,893.50	.....
First Ward (colored).....	3,800.00	3,800.00	.....
Douglass (colored).....	12,847.00	12,847.00	.....
Fifth Ward (colored).....	7,430.70	5,000.00	2,430.70
Langston (colored).....	10,580.00	10,580.00	.....
Fourth Ward (colored).....	11,690.00	11,690.00	.....
Palmer Street (colored).....	8,840.86	8,840.86	.....
Additions in 1905 (colored).....	9,700.95	9,700.95	.....
Barr Addition (colored).....	5,700.00	.....	5,700.00
TOTAL.....	\$ 864,691.62	\$ 770,793.85	\$ 93,897.77
Water Plant.....	\$ 1,211,404.94	\$ 1,026,132.78	\$185,272.16
Parks:			
Sam Houston.....	\$ 37,641.73	\$ 37,248.60	\$ 393.13
Cleveland .....	50,500.00	50,500.00	.....
Elizabeth Baldwin (site donated)....	193.75	.....	193.75
TOTAL.....	\$ 88,335.48	\$ 87,748.60	\$ 586.88
Carnegie Library.....	\$ 8,619.62	\$ 8,619.62	.....
Auditorium .....	\$ 99,922.79	.....	\$ 99,922.79
Houston Ship Channel.....	\$ 86,983.36	\$ 65,508.85	\$ 21,474.51
Wharves and Slips.....	\$ 67,770.75	.....	\$ 67,770.75
Street paving subsequent to Jan. 1, 1899.....	\$1,155,897.15	\$1,051,993.26	\$103,903.89
Undistributed, prior to Jan. 1, 1899.....	\$1,659,846.16	\$1,659,846.16	.....
TOTAL.....	\$6,973,325.46	\$6,248,255.66	\$725,069.80

**Outstanding Bills for Collection—General—At February 28, 1910**

No.		Amount
352	Robischung Bros.....	\$ 17.50
368	J. W. Thiel.....	5.00
370	Harris County.....	465.99
404	E. C. Lamb.....	3.50
420	Geo. W. Larendon.....	9.25
423	Pottliff & Griffin.....	105.00
454	Miss Kate Scanlan.....	7.50
486	Houston Electric Co.....	28.33
497	T. H. Thompson.....	52.20
498	Richard Rogers.....	102.00
501	B. N. McCraven.....	86.40
506	Mrs. Julia Reiler.....	30.60
513	Houston Gas Co.....	4.70
519	Texas Grading Co.....	7.50
538	Texas Grading Co.....	7.00
543	Houston Gas Co.....	16.30
547	Citizens' Telephone Co.....	3.75
553	Mrs. E. Flewellen.....	68.15
554	S. S. Ashe.....	70.50
582	Houston Electric Co.....	462.00
588	Capt. Curry.....	24.00
608	Texas Grading Co.....	37.50
611	Houston Electric Co.....	78.50
619	P. S. Griffith.....	109.20
651	Houston Electric Co.....	22.50
661	Collins Bros.....	18.00
662	G. H. & H. Transportation Co.....	333.61
685	Southern Pacific Railway Co.....	1,017.77
692	Home Telephone Co.....	6.25
705	Mrs. E. Flewellen.....	3.65
706	Dudley Bros.....	2.10
708	H. S. Fox.....	1.25
709	Taylor, Roberts & Co.....	13.60
747	M. K. & T. Ry. Co.....	2.00
756	Houston Electric Co.....	28.33
761	Stevens Construction Co.....	16.50
762	Collins Bros.....	45.00
763	Houston Electric Co.....	46.13
764	Houston Electric Co.....	478.65
765	Houston Electric Co.....	14.22
766	Houston Electric Co.....	8.40
767	Houston Electric Co.....	12.55
768	Houston Electric Co.....	12.35
769	Houston Electric Co.....	12.50
770	Houston Electric Co.....	5.96
771	Houston Electric Co.....	6.00
772	Houston Electric Co.....	2.40
773	G. H. & S. A. Ry. Co.....	265.20
775	Houston Electric Co.....	6.50
776	Houston Light & Power Co.....	307.50
777	Houston Light & Power Co.....	10.75
778	Houston Electric Co.....	28.33
	<b>TOTAL.....</b>	<b>\$4,530.37</b>

**Exhibit "A"—Schedule No. 2.**

**List of Warrants Outstanding, February 28, 1910.**

## CITY WARRANTS:

No.		Amount
9961	H. A. Paine.....	\$ 38.25
11450	Hobson Electric Co.....	16.91
11451	Houston Broom Factory.....	10.00
11464	Jos. F. Meyer Co.....	6.85
11477	Texas Auto & Tire Works.....	3.50
<b>TOTAL.....</b>		<b>\$ 75.51</b>

## SCHOOL WARRANTS:

2329	Capital Pharmacy.....	\$ .80
<b>GRAND TOTAL.....</b>		<b>\$ 76.31</b>

**Special Deposits Payable at February 28, 1910.**

	Folio	Amount
		\$
J. W. Thiel.....	9	60.00
Modern Plumbing Co.....	12	30.00
Frank Maurand.....	13	35.00
Lead Pipe Plumbing Co.....	15	10.00
Western Union Telegraph Co.....	22	200.00
Southwestern Tel. & Tel. Co.....	23	250.00
Houston Gas Co.....	24	500.00
F. L. Putnam.....	30	110.00
H. T. F. Williams.....	32	10.00
N. G. Kittrell, Jr.....	33	20.00
F. E. Koehler.....	33	10.00
O. Gersteman.....	40	30.00
R. L. Carroll.....	42	10.00
Union Iron Works.....	42	10.00
M. L. Arin.....	42	10.00
H. W. Threlkeld.....	42	20.00
H. L. Stevens.....	43	25.00
Mrs. Louise Attra.....	44	10.00
F. J. Bissonette.....	44	10.00
W. T. Scott.....	44	20.00
Lee Seep.....	45	10.00
H. Radoff.....	46	10.00
J. O. Ross.....	50	10.00
Collins Bros.....	54	76.00
Houston Saw Mill Co.....	55	20.00
F. Stech.....	55	10.00
Theo. C. Miller.....	57	10.00
W. S. Hipp.....	60	15.00
T. E. Jewett.....	60	15.00
W. J. Keenan.....	61	70.00
C. Cramer.....	62	10.00
McNeely & Heitman.....	64	10.00
Keithly Co.....	66	100.40
C. H. Condon & Co.....	67	28.50
Albert Glaser.....	67	10.00
Scanlan & Bartell.....	68	10.00
Commercial and First National Banks.....	68	25.00
F. C. Van Liew.....	69	75.00
G. H. & H. Transportation Co.....	72	10.00
R. J. Potts.....	74	10.00
People's Ice Co.....	77	10.00
W. W. Brunson.....	77	25.00
Palmer & McGregor.....	77	10.00
Robischung Bros.....	80	155.00
Barber Plumbing Co.....	83	480.50
<b>TOTAL.....</b>		<b>\$2,595.40</b>

**Exhibit "A"—Schedule No. 4.**

**Bonded Debt, February 28, 1910.**

Date Issued		Rate	Amount
Jan. 1, 1882	30-year funding bonds.....	6%	\$ 524,000.00
July 1, 1888	30-year compromise bonds.....	6%	500,000.00
July 1, 1888	30-year compromise bonds.....	5%	503,000.00
May 1, 1894	30-year public school building bonds.....	6%	100,000.00
May 1, 1896	40-year bridge building bonds.....	5%	39,000.00
Jan. 1, 1897	40-year Market House funding bonds.....	5%	109,000.00
July 1, 1897	40-year paving and sewer bonds.....	5%	250,000.00
Dec. 1, 1897	40-year school building bonds.....	5%	50,000.00
Jan. 1, 1898	25-year school building refunding bonds.....	5%	60,000.00
July 1, 1898	40-year paving, sewer and permanent im- provement bonds.....	5%	100,000.00
Jan. 2, 1899	40-year paving and sewer bonds.....	5%	100,000.00
Nov. 15, 1899	40-year sewerage and sanitary system bonds.	5%	300,000.00
Aug. 1, 1901	40-year paving bonds.....	5%	240,000.00
Aug. 1, 1901	40-year sewer bonds.....	5%	60,000.00
Aug. 1, 1901	40-year school building bonds.....	5%	50,000.00
Aug. 15, 1903	40-year market, engine and school house bonds.....	5%	100,000.00
Oct. 1, 1903	40-year paving bonds.....	5%	300,000.00
Oct. 1, 1904	40-year improvement bonds.....	5%	100,000.00
July 16, 1906	40-year water works bonds.....	5%	434,000.00
Aug. 5, 1908	30-year permanent paving bonds.....	5%	100,000.00
Oct. 26, 1908	30-year water mains extension bonds.....	4½%	100,000.00
Oct. 26, 1908	30-year wharf and slip construction bonds...	4½%	150,000.00
Oct. 26, 1908	30-year-sewer drainage construction bonds...	4½%	225,000.00
Oct. 26, 1908	30-year sanitary sewer construction bonds...	4½%	225,000.00
Sept. 7, 1909	30-year permanent paving bonds.....	4½%	100,000.00
<b>TOTAL.....</b>			<b>\$4,819,000.00</b>

**Statement of Revenue and Expense for the Years Ended  
February 28, 1910 and 1909.**

<b>REVENUE—</b>	1910.	1909.
Exhibit "B," Schedule No. 1—Ordinary.....	\$1,523,969.42	\$1,385,329.60
Exhibit "B," Schedule No. 2—Extraordinary.....	15,000.00	900.00
<b>TOTAL REVENUE.....</b>	<b>\$1,538,969.42</b>	<b>\$1,386,229.60</b>
 <b>EXPENSE—</b>		
Exhibit "B," Schedule No. 3—Ordinary.....	\$1,165,213.09	\$1,037,776.54
Exhibit "B," Schedule No. 4—Extraordinary.....	34,552.91	33,679.55
<b>TOTAL EXPENSE.....</b>	<b>\$1,199,766.00</b>	<b>\$1,071,456.09</b>
Excess of revenue over expense.....	\$ 339,203.42	\$ 314,773.51
 <i>Disbursements for Permanent Improvements from General Revenues—</i>		
Exhibit "B," Schedule No. 5.....	\$ 349,968.31	\$ 308,263.46
<b>REVENUE IN EXCESS OF TOTAL DISBURSEMENTS..*</b>	<b>\$ 10,764.89</b>	<b>\$ 6,510.05</b>

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\*Deficiency.

**Revenue, Classified and Compared, for the Fiscal Years Ended February 28, 1910 and 1909.**

**GENERAL GOVERNMENT:**

	1910.	1909.	Increase or Decrease
<i>Law Department—</i>			
City Attorney's Office.....	\$ 1,042.63	\$ 26.85	\$ 1,015.78
<i>Finance Department—</i>			
Assessor and Collector:			
Interest .....	\$ 10,282.45	\$ 8,694.99	\$ 1,587.46
Advertising and Costs.....	3,768.32	2,838.25	930.07
<b>TOTAL FINANCE DEPARTMENT.....</b>	<b>\$ 14,050.77</b>	<b>\$ 11,533.24</b>	<b>\$ 2,517.53</b>
<b>TOTAL GENERAL GOVERNMENT.....</b>	<b>\$ 15,093.40</b>	<b>\$ 11,560.09</b>	<b>\$ 3,533.31</b>

**PUBLIC SAFETY:**

*Police Department—*

Special Details and Appointments....	\$ 2,374.00	\$ 2,428.50	*\$	54.50
Pound Fees.....	3,692.30	2,994.10		698.20
Dog Licenses.....	302.00	582.00	*	280.00
Other .....	36.50	77.40	*	40.90
<b>TOTAL.....</b>	<b>\$ 6,404.80</b>	<b>\$ 6,082.00</b>	<b>\$</b>	<b>322.80</b>
<i>Corporation Court—</i>				
Fines and Costs.....	\$ 16,994.05	\$ 11,844.15	\$	5,149.90
<i>Fire Department—</i>				
Miscellaneous .....	\$ 728.50	\$ 512.00	\$	216.50
<i>Health Department—</i>				
Miscellaneous .....	\$ 33.60	\$ 10.50	\$	23.10
<i>Scavenger Department.....</i>	<b>\$ 17,052.75</b>	<b>\$ 15,738.75</b>	<b>\$</b>	<b>1,314.00</b>
<i>Electrical Department.....</i>	<b>\$ 3,422.20</b>	<b>\$ 2,810.15</b>	<b>\$</b>	<b>612.05</b>
<b>TOTAL PUBLIC SAFETY.....</b>	<b>\$ 44,635.90</b>	<b>\$ 36,997.55</b>	<b>\$</b>	<b>7,638.35</b>

**PUBLIC WORKS:**

*City Engineer—*

Survey Fees.....	\$ 869.00	\$ 804.50	\$	64.50
Building Permits.....	2,655.00	2,360.50		394.50
Plumbing and Sewer Inspection Fees	1,379.95	1,093.55		286.40
Other .....	563.20	261.00		302.20
<b>TOTAL.....</b>	<b>\$ 5,467.15</b>	<b>\$ 4,519.55</b>	<b>\$</b>	<b>947.60</b>
<i>Streets and Bridges Department.....</i>	<b>\$ 3,347.94</b>	<b>\$ 7,462.32</b>	<b>*\$</b>	<b>4,114.38</b>
<i>Garbage Department.....</i>	<b>\$ 4.00</b>	<b>\$ 2.00</b>	<b>\$</b>	<b>2.00</b>
<i>Sewer System.....</i>	<b>\$ 6.40</b>	<b>\$ 6.40</b>	<b>*\$</b>	<b>6.40</b>
<b>TOTAL PUBLIC WORKS.....</b>	<b>\$ 8,819.09</b>	<b>\$ 11,990.27</b>	<b>*\$</b>	<b>3,171.18</b>

**REVENUE (Forward).....** \$ 68,548.39    \$ 60,547.91    \$ 8,000.48

\*Decrease.

**Exhibit "B"—Schedule No. 1.**

(Continued)—1.

**Revenue, Classified and Compared, for the Fiscal Years Ended February 28, 1910 and 1909—Continued.**

	1910.	1909.	Increase or Decrease
REVENUE (Forward).....	\$ 68,548.39	\$ 60,547.91	\$ 8,000.48
<b>PUBLIC INDUSTRIES:</b>			
Markets .....	\$ 19,936.30	\$ 19,133.75	\$ 802.55
Water Department—			
Water rates.....	\$ 94,963.40	\$ 108,555.80	**\$ 13,592.40
Meters .....	70,170.18	48,646.45	21,523.73
Sundries .....	4,611.69	1,646.53	2,965.16
Services .....	8,637.70	5,989.70	2,648.00
Monthly .....	31,280.00	32,167.00	* 887.00
TOTAL.....	\$ 209,662.97	\$ 197,005.48	\$ 12,657.49
<b>TOTAL PUBLIC INDUSTRIES.....</b>	<b>\$ 229,599.27</b>	<b>\$ 216,139.23</b>	<b>\$ 13,460.04</b>
<b>PUBLIC EDUCATION, RECREATION AND ART:</b>			
Schools .....	\$ 110,107.78	\$ 105,293.26	\$ 4,814.52
Parks .....	572.25	400.00	172.25
<b>TOTAL PUBLIC EDUCATION, RECREATION AND ART.....</b>	<b>\$ 110,680.03</b>	<b>\$ 105,693.26</b>	<b>\$ 4,986.77</b>
<b>TAXATION:</b>			
<i>Ad Valorem Tax.....</i>	<i>\$ 1,024,599.52</i>	<i>\$ 927,250.20</i>	<i>\$ 97,349.32</i>
Occupation Tax—			
Liquor .....	\$ 26,257.45	\$ 19,789.00	\$ 6,468.45
Beer .....	6,936.05	5,820.85	1,115.20
Other .....	3,431.00	3,889.28	* 458.28
TOTAL.....	\$ 36,624.50	\$ 29,499.13	\$ 7,125.37
<i>Poll Tax.....</i>	<i>\$ 7,029.00</i>	<i>\$ 6,998.00</i>	<i>\$ 31.00</i>
<i>Franchise Tax.....</i>	<i>\$ 21,807.80</i>	<i>\$ 7,871.73</i>	<i>\$ 13,936.07</i>
<b>TOTAL TAXATION.....</b>	<b>\$ 1,090,060.82</b>	<b>\$ 971,619.06</b>	<b>\$118,441.76</b>
<b>PREMIUM ON BONDS.....</b>	<b>\$ 1,000.00</b>	<b>\$ 25,681.00</b>	<b>**\$ 24,681.00</b>
<b>MISCELLANEOUS .....</b>	<b>\$ 24,080.91</b>	<b>\$ 5,649.14</b>	<b>\$ 18,431.77</b>
<b>TOTAL ORDINARY REVENUES.....</b>	<b>\$1,523,969.42</b>	<b>\$1,385,329.60</b>	<b>\$138,639.82</b>

\*Decrease.

**Exhibit "B"—Schedule No. 1.**

(Concluded)—2.

REVENUE—EXTRAORDINARY .....	\$ 15,000.00	\$ 900.00	\$ 14,100.00
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**Exhibit "B"—Schedule No. 2.**

**Expense, Classified and Compared, for the Fiscal Years Ended February 28, 1910 and 1909.**

**ORDINARY EXPENSE—**

GENERAL GOVERNMENT:

*Executive*—

	1910.	1909.	Increase or Decrease
Mayor's Office:			
Salaries .....	\$ 4,000.00	\$ 4,000.00	
Other .....	713.65	2,733.35	*\$ 2,019.70
TOTAL EXECUTIVE.....	\$ 4,713.65	\$ 6,733.35	*\$ 2,019.70

*Legislative*—

City Council:

Salaries .....	\$ 9,600.00	\$ 9,600.00	
City Secretary—			
Salaries .....	\$ 1,200.00	\$ 1,200.00	
Stationery and printing.....	62.65	106.70	*\$ 44.05
Other .....	224.10	199.35	24.75
TOTAL.....	\$ 1,486.75	\$ 1,506.05	*\$ 19.30
TOTAL LEGISLATIVE.....	\$ 11,086.75	\$ 11,106.05	*\$ 19.30

*Law Department*—

City Attorney's Office:

Salaries .....	\$ 9,271.96	\$ 8,377.95	\$ 894.01
Court costs.....	1,821.62	752.05	1,069.57
Other .....	688.46	1,392.72	* 704.26
TOTAL LAW DEPARTMENT.....	\$ 11,782.04	\$ 10,522.72	\$ 1,259.32

*Finance Department*—

City Controller's Office:

Salaries .....	\$ 4,350.00	\$ 3,978.23	\$ 371.77
Stationery and printing.....	84.50	165.75	* 81.25
Other .....	385.15	12.00	373.15
TOTAL.....	\$ 4,819.65	\$ 4,155.98	\$ 663.67

Treasurer's Office:

Salaries .....	\$ 600.00	\$ 600.00	
Stationery and printing.....	23.50	.	\$ 23.50
TOTAL.....	\$ 623.50	\$ 600.00	\$ 23.50
City Assessor and Collector:			

Salaries .....	\$ 13,439.40	\$ 13,670.75	*\$ 231.35
Advertising .....	655.70	586.54	69.16
Stationery and printing.....	897.20	685.20	212.00
Other .....	796.10	335.95	460.15
TOTAL.....	\$ 15,788.40	\$ 15,278.44	\$ 509.96

TOTAL FINANCE DEPARTMENT....	\$ 21,231.55	\$ 20,034.42	\$ 1,197.13
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GENERAL GOVERNMENT (Forward).....	\$ 48,813.99	\$ 48,396.54	\$ 417.45
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\*Decrease.

**Exhibit "B"—Schedule No. 3.**

(Continued)—1.

**Expense, Classified and Compared, for the Fiscal Years Ended February 28, 1910 and 1909—Continued.**

	1910.	1909.	Increase or Decrease
<b>ORDINARY EXPENSE (Continued).</b>			
GENERAL GOVERNMENT ( <i>Forward</i> ).....\$	48,813.99	\$ 48,396.54	\$ 417.45
<i>Miscellaneous—</i>			
City Hall:			
Repairs and renewals.....\$ 973.51	\$ 468.45	\$ 505.06	
Salaries—operation .....	1,441.60	1,385.60	56.00
Other—operation .....	1,392.52	2,382.80	* 990.28
TOTAL.....\$ 3,807.63	\$ 4,236.85	* \$ 429.22	
Elections:			
Salaries—judges and clerks....\$ 471.40	\$ 618.50	* \$ 147.10	
Stationery and printing.....417.25	176.22	241.03	
Other .....	157.61	203.00	* 45.39
TOTAL.....\$ 1,046.26	\$ 997.72	\$ 48.54	
Damages Not Chargeable to Dep'ts:			
Injuries to individuals.....\$ 552.50	\$ 685.90	* \$ 133.40	
Damages to property.....134.75	1,060.00	*	925.25
TOTAL.....\$ 687.25	\$ 1,745.90	* \$ 1,058.65	
Interest on Bonded Debt.....\$ 271,772.50	\$ 238,676.19	\$ 33,096.31	
<i>Miscellaneous:</i>			
Salaries .....	\$ 3,980.00	\$ 1,290.00	\$ 2,690.00
Other .....	37,462.37	25,148.84	12,313.53
TOTAL.....\$ 41,442.37	\$ 26,438.84	\$ 15,003.53	
Electric lights.....\$ 39,945.56	\$ 38,295.23	\$ 1,650.33	
TOTAL MISCELLANEOUS.....\$ 358,701.57	\$ 310,390.73	\$ 48,310.84	
TOTAL GENERAL GOVERNMENT.....\$ 407,515.56	\$ 358,787.27	\$ 48,728.29	
ORDINARY EXPENSE ( <i>Forward</i> ).....\$ 407,515.56	\$ 358,787.27	\$ 48,728.29	

\*Decrease.

**Exhibit "B"—Schedule No. 3.**

(Continued)—2.

**Expense, Classified and Compared, for the Fiscal Years Ended February 28, 1910 and 1909—Continued.**

	1910.	1909.	Increase or Decrease
ORDINARY EXPENSE ( <i>Forward</i> ).....\$ 407,515.56 \$ 358,787.27 \$ 48,728.29			
<b>PUBLIC SAFETY:</b>			
<i>Police Department</i> —			
Salaries .....	\$ 86,826.23	\$ 76,278.89	\$ 10,547.34
Repairs and renewals of wagons and harness .....	17.20	7.60	9.60
Live stock—replacement and keep	476.48	526.49	*
Criminal District Attorney ass't..	200.00	2,400.00	* 2,200.00
Repairs and renewals of buildings.	258.03	299.17	*
Repairs and renewals of equipment	159.50	114.35	45.15
Light and heat.....	450.21	487.73	*
Subsistence of prisoners.....	4,207.80	4,178.03	29.77
Stationery and printing.....	184.85	181.20	3.65
Other .....	1,991.81	1,248.68	743.13
Repairs and renewals—pound.....	9.00	.....	9.00
Other expenses—pound.....	476.47	632.32	*
TOTAL .....	\$ 95,257.58	\$ 86,354.46	\$ 8,903.12
<i>Corporation Court</i> —			
Salaries .....	\$ 1,800.00	\$ 1,800.00	.....
Other .....	95.20	111.25	*\$ 16.05
TOTAL .....	\$ 1,895.20	\$ 1,911.25	*\$ 16.05
<i>Fire Department</i> —			
Salaries .....	\$ 72,120.05	\$ 60,347.10	\$ 11,772.95
Repairs and renewals of buildings	1,312.78	851.92	460.86
Repairs and renewals of furniture and bedding .....	691.05	24.75	666.30
Repairs and renewals—equipment	6,546.74	14,124.50	*
Live stock—replacement and keep	10,026.74	10,878.87	*
Fuel for engines.....	441.10	1,266.07	*
Lubricants and other engine sup- plies .....	231.04	349.01	*
Chemicals .....	47.10	231.66	*
Rent .....	9.15	.....	9.15
Light and heat.....	2,690.12	1,241.25	1,448.87
Stationery and printing.....	52.30	63.00	*
Other .....	1,063.41	1,478.34	*
TOTAL .....	\$ 95,231.58	\$ 90,856.47	\$ 4,375.11
<i>PUBLIC SAFETY (Forward)</i> .....\$ 192,384.36 \$ 179,122.18 \$ 13,262.18			
ORDINARY EXPENSE ( <i>Forward</i> ).....\$ 407,515.56 \$ 358,787.27 \$ 48,728.29			

\*Decrease.

**Exhibit "B"—Schedule No. 3.**

(Continued)—3.

**Expense, Classified and Compared, for the Fiscal Years Ended February 28, 1910 and 1909—Continued.**

	1910.	1909.	Increase or Decrease
ORDINARY EXPENSE ( <i>Forward</i> ).....	\$ 407,515.56	\$ 358,787.27	\$ 48,728.29
PUBLIC SAFETY ( <i>Forward</i> ).....	\$ 192,384.36	\$ 179,122.18	\$ 13,262.18
<i>Health Department—</i>			
Salaries—superintendence .....	\$ 4,024.96	\$ 3,699.96	\$ 325.00
Salaries—inspectors .....	9,132.04	4,447.50	4,684.54
Repairs and renewals—pest house	15.00	47.50	* 32.50
Operation—pest house .....	468.00	1,091.14	* 623.14
Quarantine expense .....	43.50	13.50	30.00
Drugs, chemicals and appliances.	3,527.26	3,252.65	274.61
Stationery and printing.....	137.35	88.65	48.70
Other .....	586.74	304.62	282.12
TOTAL .....	\$ 17,934.85	\$ 12,945.52	\$ 4,989.33
<i>Scavenger Department—</i>			
Salaries .....	\$ 9,563.07	\$ 8,282.51	\$ 1,280.56
Repairs and renewals—equipment	458.16	185.57	272.59
Live stock—replacement and keep	928.54	1,852.14	* 923.60
Stationery and printing.....	90.50	99.05	* 8.55
Other .....	267.44	628.06	* 360.62
TOTAL .....	\$ 11,307.71	\$ 11,047.33	\$ 260.38
<i>Electrical Department—</i>			
Salaries—superintendence .....	\$ 1,800.00	\$ 1,620.00	\$ 180.00
Salaries—inspectors .....	1,357.50	1,200.00	157.50
Repairs and renewals—fire alarm			
telegraph .....	1,381.50	1,666.27	* 284.77
Other .....	860.08	282.20	577.88
TOTAL .....	\$ 5,399.08	\$ 4,768.47	\$ 630.61
TOTAL PUBLIC SAFETY.....	\$ 227,026.00	\$ 207,883.50	\$ 19,142.50
<i>PUBLIC WORKS:</i>			
<i>Engineer's Department—</i>			
Salaries .....	\$ 9,050.70	\$ 9,757.50	* \$ 706.80
Repairs and renewals of instruments .....	4.95	4.35	.60
Stationery and printing.....	181.81	201.75	* 19.94
Other .....	394.29	537.05	* 142.76
TOTAL .....	\$ 9,631.75	\$ 10,500.65	* \$ 868.90
PUBLIC WORKS ( <i>Forward</i> ).....	\$ 9,631.75	\$ 10,500.65	* \$ 868.90
ORDINARY EXPENSE ( <i>Forward</i> ).....	\$ 634,541.56	\$ 566,670.77	\$ 67,870.79

\*Decrease.

**Exhibit "B"—Schedule No. 3.**

(Continued)—4.

**Expense, Classified and Compared, for the Fiscal Years Ended February 28, 1910 and 1909—Continued.**

	1910.	1909.	Increase or Decrease
<b>ORDINARY EXPENSE (Forward).....\$</b>	<b>634,541.56</b>	<b>\$ 566,670.77</b>	<b>\$ 67,870.79</b>
<b>PUBLIC WORKS (Forward).....\$</b>	<b>9,631.75</b>	<b>\$ 10,500.65</b>	<b>*\$ 868.90</b>
<i>Streets and Bridges Department—</i>			
Salaries—superintendence .....	\$ 3,462.60	\$ 3,816.00	* \$ 353.40
Repairs and renewals—buildings..	.....	224.15	* 224.15
Repairs and renewal—equipment.	6,297.57	3,808.52	2,489.05
Repairs and renewals—bridges...	27,769.72	20,596.89	7,172.83
Live stock—replacement and keep	11,113.04	7,645.15	3,467.89
Street cleaning .....	29,997.69	21,169.89	8,827.80
Street repairing .....	29,293.30	52,066.76	* 22,773.46
Other .....	1,041.31	377.40	663.91
<b>TOTAL .....</b>	<b>\$ 108,975.23</b>	<b>\$ 109,704.76</b>	<b>*\$ 729.53</b>
<i>Garbage Department—</i>			
Salaries .....	\$ 17,444.90	\$ 16,903.22	\$ 541.68
Repairs and renewals—buildings..	.....	21.05	* 21.05
Repairs and renewals—equipment	17.12	319.31	* 302.19
Live stock—replacement and keep	2.50	.....	2.50
Other .....	23.50	206.45	* 182.95
<b>TOTAL .....</b>	<b>\$ 17,488.02</b>	<b>\$ 17,450.03</b>	<b>\$ 37.99</b>
<i>Sewer System—</i>			
Sanitary sewer system—pumping station, operation .....	\$ 13,196.45	\$ 11,587.41	\$ 1,609.04
Sanitary sewer system—pumping station, repairs and renewals...	2,080.51	1,631.28	449.23
Sanitary sewer system—filter beds	5,130.00	7,877.53	* 2,747.53
Sanitary sewer system—other....	146.10	267.75	* 121.65
Sewers—repairs and renewals....	3,613.96	1,821.31	1,792.65
Sewer inspections .....	1,500.00	1,500.00	.....
Other .....	563.00	455.15	107.85
<b>TOTAL .....</b>	<b>\$ 26,230.02</b>	<b>\$ 25,140.43</b>	<b>\$ 1,089.59</b>
<b>Asphalt expense .....</b>	<b>\$ 10,962.33</b>	.....	<b>\$ 10,962.33</b>
<b>TOTAL PUBLIC WORKS.....\$</b>	<b>173,287.35</b>	<b>\$ 162,795.87</b>	<b>\$ 10,491.48</b>
<b>PUBLIC INDUSTRIES:</b>			
<i>Markets—</i>			
Salaries .....	\$ 4,732.99	\$ 4,288.30	\$ 444.69
Repairs and renewals of buildings	2,690.16	161.90	2,528.26
Other .....	2,465.41	2,406.26	59.15
<b>TOTAL .....</b>	<b>\$ 9,888.56</b>	<b>\$ 6,856.46</b>	<b>\$ 3,032.10</b>
<b>PUBLIC INDUSTRIES (Forward).....\$</b>	<b>9,888.56</b>	<b>\$ 6,856.46</b>	<b>\$ 3,032.10</b>
<b>ORDINARY EXPENSE (Forward).....\$</b>	<b>807,828.91</b>	<b>\$ 729,466.64</b>	<b>\$ 78,362.27</b>

\*Decrease.

**Exhibit "B"—Schedule No. 3.**

(Continued)—5.

**Expense, Classified and Compared, for the Fiscal Years Ended February 28, 1910 and 1909—Continued.**

	1910.	1909.	Increase or Decrease
ORDINARY EXPENSE ( <i>Forward</i> ).....	\$ 807,828.91	\$ 729,466.64	\$ 78,362.27
PUBLIC INDUSTRIES ( <i>Forward</i> ).....	\$ 9,888.56	\$ 6,856.46	\$ 3,032.10
<i>Water Department</i> —			
Salaries, operation.....	\$ 12,736.36	\$ 11,833.35	\$ 903.01
Fuel .....	36,654.13	32,382.80	4,271.33
Lubricating oil, waste and packing .....	1,387.49	1,365.09	22.40
Machinery repairs .....	3,002.28	1,590.08	1,412.20
Building repairs .....	4,442.20	658.22	3,783.98
Other expenses at pump house.....	1,326.27	175.32	1,150.95
Salaries—office force .....	9,971.45	5,110.00	4,861.45
Repairs, street service.....	7,182.59	3,155.86	4,026.73
Service connections .....	7,788.85	5,401.14	2,387.71
Other .....	2,039.54	1,660.10	379.44
TOTAL .....	\$ 86,531.16	\$ 63,331.96	\$ 23,199.20
TOTAL PUBLIC INDUSTRIES.....	\$ 96,419.72	\$ 70,188.42	\$ 26,231.30
PUBLIC EDUCATION, RECREATION AND ART:			
<i>Schools</i> —			
Salaries .....	\$ 205,418.97	\$ 182,764.74	\$ 22,654.23
Repairs and renewals—buildings.....	4,741.08	7,386.18	* 2,645.10
Repairs and renewals—furniture and fixtures .....	4,076.25	2,551.57	1,524.68
Laboratories .....	1,197.64	.....	1,197.64
Other school supplies.....	2,395.39	3,716.04	* 1,320.65
School libraries .....	233.53	416.32	* 182.79
Rent of sites and buildings.....	896.00	1,272.42	* 376.42
Primary and kindergarten.....	967.27	.....	967.27
Light and heat.....	4,808.43	4,788.76	19.67
Stationery and printing.....	1,750.15	1,432.10	318.05
Insurance .....	3,236.76	2,494.50	742.26
Permanent improvements.....	2,539.00	5,700.00	* 3,161.00
Manual training .....	4,682.71	4,611.86	70.85
Domestic science .....	5,297.55	3,771.46	1,526.09
Other .....	1,756.64	3,062.26	* 1,305.62
TOTAL .....	\$ 243,997.37	\$ 223,968.21	\$ 20,029.16
PARKS:			
<i>Sam Houston Park</i> —			
Salaries .....	\$ 840.00	\$ 770.00	\$ 70.00
Repairs and renewals—buildings.....	26.24	118.60	* 92.36
Repairs and renewals—equipment .....	240.57	80.40	160.17
Maintenance of grounds.....	3,332.81	2,476.09	856.72
Other .....	3,257.27	3,707.22	* 449.95
TOTAL .....	\$ 7,696.89	\$ 7,152.31	\$ 544.58
<i>Cleveland Park</i> .....	\$ 770.20	.....	\$ 770.20
<i>Houston Lyceum and Carnegie Library</i> .....	\$ 8,500.00	\$ 7,000.96	\$ 1,499.04
TOTAL PUBLIC EDUCATION, RECREATION AND ART.....	\$ 260,964.46	\$ 238,121.48	\$ 22,842.98
TOTAL ORDINARY EXPENSE.....	\$1,165,213.09	\$1,037,776.54	\$127,436.55

\*Decrease.

**Exhibit "B"—Schedule No. 3.**

(Concluded)—6.

**Expense, Classified and Compared, for the Fiscal Years Ended February 28, 1910 and 1909—Continued.**

	1910.	1909.	Increase or Decrease
<b>EXTRAORDINARY EXPENSE:</b>			
Refund Paving Certificates.....\$	23,952.91	\$ 22,779.55	\$ 1,173.36
Certificates of Indebtedness, Storrie .....	10,600.00	10,900.00	* 300.00
<b>TOTAL EXTRAORDINARY EXPENSE.</b> \$	<b>34,552.91</b>	<b>\$ 33,679.55</b>	<b>\$ 873.36</b>

**Exhibit "B"—Schedule No. 4.**

**PERMANENT IMPROVEMENTS.**

**PERMANENT IMPROVEMENTS:**

Miscellaneous—Exhibit "C".....\$	108,432.67	\$ 180,372.73	* \$ 71,940.06
Auditorium .....	99,922.79	.....	99,922.79
Houston Ship Channel.....	21,474.51	21,903.74	* 429.23
Law Department .....	98.10	.....	98.10
City Hall .....	663.92	.....	663.92
Police Department .....	3,323.43	.....	3,323.43
Electrical Department .....	15,057.93	3,134.10	11,923.83
Streets and Bridges Department..	19,458.84	18,567.07	891.77
Sewer Department .....	.....	1,321.83	* 1,321.83
Water Department .....	81,142.99	71,341.43	9,801.56
Parks .....	393.13	227.36	165.77
Fire Department .....	.....	11,145.70	* 11,145.70
Health Department .....	.....	249.50	* 249.50
<b>TOTAL PERMANENT IMPROVEMENTS.</b> \$	<b>349,968.31</b>	<b>\$ 308,263.46</b>	<b>\$ 41,704.85</b>

\*Decrease.

**Exhibit "B"—Schedule No. 5.**

**Itemized Statement of Miscellaneous Improvements Shown in  
Exhibit "B"—Schedule No. 5.**

SCHOOLS:

High School Annex.....	\$58,712.69
Fifth Ward (colored).....	2,430.70
Jones .....	486.30
Cascara .....	419.70
Lamar .....	5,178.20
Woodland Heights .....	18,008.58
Barr Addition (colored).....	5,700.00
Dow .....	2,961.60

TOTAL SCHOOL..... \$ 93,897.77

ASPHALT PLANT.....	3,000.00
SOUTH END SEWER.....	3,159.78
SAN JACINTO BRIDGE.....	1,106.48
MCKEE STREET BRIDGE.....	500.00
ELIZARETH BALDWIN PARK.....	193.75
OPENING STREETS.....	1,045.00

FIRE DEPARTMENT:

Fire Station No. 2.....	\$ 50.00
Fire Station No. 3.....	505.46
Fire Station No. 6.....	550.00
Fire Station No. 7.....	686.20
Fire Station No. 9.....	57.96
Central Station Automobile.....	1,480.27
New Fire Station, Harrisburg Road.....	2,200.00

TOTAL ..... 5,529.89

TOTAL MISCELLANEOUS IMPROVEMENTS..... \$108,432.67

**Exhibit "C".**

**Statement of Bond Fund Disbursements, Year Ended  
February 28, 1910.**

**PAVING BOND FUND:**

Cash on hand February 28, 1909.....	\$ 33,910.65
Cash proceeds Bond Issue, September 7, 1909.....	103,100.00
Cash received from bills for collection.....	<u>2,117.06</u>
	\$139,127.71

TOTAL CASH AVAILABLE FOR PAVING..... \$139,127.71

**DISBURSEMENTS.**

Street.	Amount.
Rosalie .....	\$ 1,901.75
Dennis .....	705.90
Chenevert .....	690.48
Rusk .....	731.22
Gray .....	1,177.00
Smith .....	8,554.94
Preston .....	8,764.94
Walker .....	15,742.92
San Jacinto .....	16,752.10
Dowling .....	2,183.44
Westmoreland .....	2,588.28
Harrisburg Road .....	648.40
Fifth Ward .....	1,263.50
Main .....	15,899.73
Washington .....	15,739.02
Travis .....	7,420.19
Stuart .....	3,115.58
Commerce .....	<u>24.50</u>
TOTAL .....	\$103,903.89

BALANCE ON HAND FEBRUARY 28, 1910, Exhibit "A" \$ 35,223.82

**WATER MAIN BOND FUND:**

Cash on hand February 28, 1909.....	\$104,129.17
Disbursements:	
Extension of Water Mains.....	<u>\$104,129.17</u>

**WHARVES AND SLIPS BOND FUND:**

Cash on hand February 28, 1909.....	\$156,193.75
Disbursements:	
Constructing wharves and slips—turning basin.....	<u>67,764.64</u>
BALANCE ON HAND FEBRUARY 28, 1910, Exhibit "A".	\$ 88,429.11

**Exhibit "D".**

(Continued)—1.

**Statement of Bond Fund Disbursements, Year Ended  
February 28, 1910.**

**SANITARY SEWER BOND FUND:**

Cash on hand February 28, 1909.....	\$234,291.14
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DISBURSEMENTS.

Amount.

First and Sixth Wards.....	\$ 17,059.16
Second Ward .....	1,616.39
Third Ward .....	9,654.11
Fourth Ward .....	10,495.48
Fifth Ward .....	2,026.51
Filter Beds .....	11,179.75
 <b>TOTAL</b> .....	 <b>52,031.40</b>

BALANCE ON HAND FEBRUARY 28, 1910, Exhibit "A".

	\$182,259.74
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**DRAINAGE SEWER BOND FUND:**

Cash on hand February 28, 1909.....	\$234,291.14
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DISBURSEMENTS.

Amount.

Austin Street Storm Sewer.....	\$ 42,923.13
Fourth Ward Sewer.....	4,608.35
 <b>TOTAL</b> .....	 <b>\$ 47,531.48</b>

BALANCE ON HAND FEBRUARY 28, 1910, Exhibit "A" ..

	\$186,759.66
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**Cash Receipts and Disbursements for the Fiscal Year Ended  
February 28, 1910.**

	Balance on Hand Feb. 28, 1909	Receipts	Disbursements	Balance on Hand Feb. 28, 1910
<b>IN HANDS OF TREASURER:</b>				
General Fund .....	\$ 22,062.69	\$1,517,768.93	\$1,522,134.95	\$ 17,696.67
Water Mains Bond Fund..	104,129.17	.....	104,129.17	.....
Wharfs and Slips Bond Fund .....	156,193.75	.....	67,764.64	88,429.11
Drainage Sewer Bond Fund	234,291.14	.....	47,531.48	186,759.66
Sanitary Sewer Bond Fund	234,291.14	.....	52,031.40	182,259.74
Paving Bond Fund.....	33,910.65	103,100.00	101,786.83	35,223.82
School Fund .....	* 6,804.05	295,757.90	287,258.16	1,695.69
Water Department Fund...	6,610.13	223,888.98	219,663.88	10,835.23
Special Deposits Fund.....	541.70	5,240.00	4,680.00	1,101.70
<b>TOTAL</b> .....	<b>\$785,226.32</b>	<b>\$2,145,755.81</b>	<b>\$2,406,980.51</b>	<b>\$524,001.62</b>
<b>IN OTHER HANDS:</b>				
Board of Liquidation.....	\$ 51,980.80	\$ 273,536.88	\$ 272,394.24	\$ 53,123.44
Assessor and Collector....	53,999.16	1,566,684.50	1,615,743.90	4,939.76
Police Department .....	* 114.26	23,398.85	23,309.70	* 25.11
Scavenger Department ....	4.50	16,640.25	16,644.75	.....
Electrical Department.....	98.90	3,150.70	3,232.10	17.50
Market Master .....	523.00	19,575.75	20,098.75	.....
Working Funds .....	800.00	.....	25.00	775.00
<b>TOTAL</b> .....	<b>\$107,292.10</b>	<b>\$1,902,986.93</b>	<b>\$1,951,448.44</b>	<b>\$ 58,830.59</b>

\*Red.

**Statement of Department Expenses for the Year Ended February 28, 1910, Showing Budget Allowances and Expenses.**

	Amount Appropriated	Amount Expended	Expended More than Appropriated	Expended Less than Appropriated
<b>EXECUTIVE:</b>				
Mayor .....	\$ 5,000.00	\$ 4,713.65	\$ .....	\$ 286.35
<b>LEGISLATIVE:</b>				
City Secretary .....	1,500.00	1,486.75	.....	13.25
City Council .....	9,600.	9,600.00	.....	.....
<b>LAW DEPARTMENT:</b>				
City Attorney .....	10,500.00	11,782.04	1,282.04	.....
<b>FINANCE DEPARTMENT:</b>				
Controller .....	4,250.00	4,819.65	569.65	.....
Treasurer .....	620.00	623.50	3.50	.....
Assessor and Collector...	13,500.00	15,788.40	2,288.40	.....
<b>MISCELLANEOUS DEPARTMENTS:</b>				
City Hall .....	3,000.00	3,807.63	807.63	.....
Elections .....	1,000.00	1,046.26	46.26	.....
Damages not chargeable to Departments .....	1,000.00	687.25	.....	312.75
Interest on Bonds.....	245,000.00	271,772.50	26,772.50	.....
Miscellaneous Expenses..	15,000.00	41,442.37	26,442.37	.....
Electric Lights.....	50,000.00	39,945.56	.....	10,054.44
<b>PUBLIC SAFETY:</b>				
Police Department.....	85,000.00	95,257.58	10,257.58	.....
Corporation Court.....	1,900.00	1,895.20	.....	4.80
Fire Department.....	95,000.00	95,231.58	231.58	.....
Health Department.....	16,000.00	17,934.85	1,934.85	.....
Scavenger Department...	13,000.00	11,307.71	.....	1,692.29
Electrical Department...	4,500.00	5,399.08	899.08	.....
<b>PUBLIC WORKS:</b>				
Engineer .....	12,000.00	9,631.75	.....	2,368.25
Street and Bridge.....	75,000.00	108,975.23	33,975.23	.....
Garbage .....	16,000.00	17,488.02	1,488.02	.....
Sewer .....	25,000.00	26,230.02	1,230.02	.....
Asphalt .....	.....	10,962.33	10,962.33	.....
<b>PUBLIC INDUSTRIES:</b>				
Market .....	7,000.00	9,888.56	2,888.56	.....
Water Department.....	80,000.00	86,531.16	6,531.16	.....
<b>PUBLIC EDUCATION, RECREATION AND ART:</b>				
Schools .....	231,968.75	243,997.37	12,028.62	.....
Parks .....	9,000.00	8,467.09	.....	532.91
Lyceum and Library....	8,500.00	8,500.00	.....	.....
<b>EXTRAORDINARY:</b>				
Storrie Certificates.....	6,100.00	10,600.00	4,500.00	.....
Refunding paving etc's	21,000.00	23,952.91	2,952.91	.....
Buffalo Bayou.....	20,000.00	21,474.51	1,474.51	.....
Permanent Improvements .....	.....	328,493.80	328,493.80	.....
<b>TOTAL</b> .....	<b>\$1,086,938.75</b>	<b>\$1,549,734.31</b>	<b>\$478,060.60</b>	<b>\$15,265.04</b>
		<b>\$ 462,795.56</b>	<b>\$4,62,795.56</b>	

**Exhibit "F".**

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**ANNUAL REPORT**

OF

**T. C. DUNN,**

*CITY TREASURER,*

*For the Year Ending February 28, 1910.*

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# Annual Report of T. C. Dunn, City Treasurer,

For Fiscal Year Ending February 28, 1910.

## RECEIPTS.

	General Fund.	Special Fund.	Water Dept. Fund.	Bond Paving Fund.	Bond Issues Oct. 26, 1908 Fund.	Public School Fund.
March .....	\$ 74,143.80	\$ 590.00	\$ 25,314.72	.....	.....	\$ 32,368.04
April .....	197,079.29	640.00	25,637.91	.....	.....	25,911.75
May .....	67,583.58	770.00	21,122.77	.....	.....	21,073.75
June .....	62,234.65	500.00	13,259.45	.....	.....	24,111.60
July .....	130,820.29	170.00	14,568.26	.....	.....	5,700.00
August .....	124,733.60	720.00	24,966.56	.....	.....	4,381.79
September .....	63,708.37	255.00	14,391.42	.....	.....	5,000.00
October .....	120,716.99	315.00	21,391.95	.....	.....	23,654.35
November .....	65,170.56	365.00	14,197.12	.....	.....	32,040.36
December .....	238,163.69	200.00	15,295.07	.....	.....	65,070.50
January .....	265,069.25	430.00	20,335.06	.....	.....	19,426.08
February .....	108,344.86	285.00	13,408.69	<u>\$103,100.00</u>	.....	37,019.68
Total receipts for fiscal year ending February 28, 1910.....	<u>\$1,517,768.93</u>	<u>\$5,240.00</u>	<u>\$223,888.98</u>	<u>\$103,100.00</u>	.....	<u>\$295,757.90</u>
Balances brought over from last fiscal year ending Feb. 28, 1909. .	<u>22,062.69</u>	<u>541.70</u>	<u>6,610.13</u>	<u>33,910.65</u>	<u>\$728,905.20</u>	<u>± 6,804.05</u>
	<u><u>\$1,539,831.62</u></u>	<u><u>\$5,781.70</u></u>	<u><u>\$230,499.11</u></u>	<u><u>\$137,010.65</u></u>	<u><u>\$728,905.20</u></u>	<u><u>\$288,953.85</u></u>

Overdrawn.

## DISBURSEMENTS.

		General Fund.	Special Fund.	Water Dept. Fund.	Bond Paving Fund.	Bond Issues Oct. 26, 1908	Public School Fund.
	1909.						
March		\$ 116,437.27	\$ 125.00	\$ 4,654.36	\$ 9,125.22	\$ 14,945.12	\$ 25,846.95
April		164,071.29	375.00	46,659.35	12,628.37	37,708.66	25,328.61
May		72,117.52	130.00	33,001.28	6,301.55	15,141.55	21,389.13
June		73,325.73	386.35	5,247.57	4,549.65	23,730.95	21,730.28
July		130,015.46	.....	18,537.26	6,136.65	20,424.52	6,873.20
August		92,419.33	1,020.00	6,242.28	4.15	12,424.08	2,594.08
September		87,366.41	693.65	24,943.24	.....	15,664.21	2,908.49
October		122,942.21	465.00	8,251.06	.....	11,175.36	26,328.60
November		81,981.46	405.00	21,039.10	.....	13,597.87	28,913.85
December		225,881.83	480.00	27,849.08	.....	22,415.42	65,022.10
January		241,687.42	415.00	13,947.44	.....	39,570.34	22,043.80
February		113,879.02	185.00	9,291.86	68,564.24	46,424.96	36,273.32
Total disbursements for fiscal year year ending February 28, 1910.		\$4,680.00	\$219,663.88	\$101,786.83	\$271,456.69	\$287,258.16	
Balances on hand.....		1,101.70	10,835.23	35,223.82	457,448.51	1,695.69	
		\$1,539,831.62	\$5,781.70	\$230,499.11	\$137,010.65	\$728,905.20	\$288,953.85

STATE OF TEXAS.      {  
COUNTY OF HARRIS.      }      ss.

This affiant, T. C. Dunn, City Treasurer, being first duly sworn, says that the foregoing is a full and true statement of all matters relating thereto for the period covered by this report, to the best of his knowledge and belief.

T. C. DUNN,  
*City Treasurer.*

Subscribed and sworn to before me this 5th day of March, 1910.

P. GEO. MAERCKY,  
*Notary Public, Harris County, Texas.*

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ANNUAL REPORT

OF

JAMES P. WELSH,

*CITY ASSESSOR AND COLLECTOR,*

SHOWING COLLECTION AND  
DISPOSITION OF TAXES

*For the Year Ending February 28, 1910.*

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## REPORT OF CITY ASSESSOR AND COLLECTOR.

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HOUSTON, TEXAS, March 5, 1910.

HON. H. B. RICE,  
*Mayor of the City of Houston.*

DEAR SIR: I herewith submit my annual report, beginning March 1, 1909, and ending February 28, 1910. The report speaks for itself in detail as to collections and distributions.

Yours very truly,

JAMES P. WELSH,  
*City Assessor and Collector.*

## Annual Report of Collections and Distribution Thereof.

## COLLECTIONS.

Ad Valorem Tax—Bonds.....	\$527,760.57	
General .....	<u>\$527,760.81</u>	\$1,055,521.38
Costs—Interest .....	\$ 10,380.08	
Advertising and other.....	3,768.32	
Court .....	<u>938.87</u>	15,087.27
Occupation Tax—Liquor.....	\$ 26,257.45	
Beer .....	6,936.05	
Other .....	<u>3,431.00</u>	36,624.50
Poll Tax .....	\$ 7,029.00	7,029.00
Franchise Tax .....	<u>\$ 21,807.80</u>	21,807.80
Special Deposits .....	\$ 5,150.00	
Permits and Fees.....	5,480.15	
Miscellaneous .....	103,844.68	
Bills for Collection.....	22,574.07	
Bills for Collection.....	<u>70,429.44</u>	207,478.34
Water Department .....	<u>\$223,136.21</u>	223,136.21
Total .....		\$1,566,684.50
Balance on hand February 28, 1909.....		53,999.16
 Total .....		<u>\$1,620,683.66</u>

## DISTRIBUTIONS.

Deposited with City Treasurer, March, 1909.....	\$ 99,907.86	
April, 1909 .....	90,290.94	
May, 1909 .....	39,392.35	
June, 1909 .....	25,645.12	
July, 1909 .....	94,568.26	
August, 1909 .....	150,416.16	
September, 1909 .....	63,278.14	
October, 1909 .....	92,383.94	
November, 1909 .....	70,158.16	
December, 1909 .....	252,380.97	
January, 1910 .....	284,665.05	
February, 1910 .....	<u>52,763.82</u>	\$1,315,850.77
Deposited with Board of Liquidation—		
June, 1909 .....	\$ 70,429.44	
July, 1909 .....	20,000.00	
August, 1909 .....	20,000.00	
September, 1909 .....	11,107.44	
December, 1909 .....	77,000.00	
January, 1910 .....	<u>75,000.00</u>	273,536.88
Purchase of Harris County Bonds.....	\$ 26,000.00	
Interest .....	<u>356.25</u>	26,356.25
 Total .....		\$1,615,743.90
Balance on hand February 28, 1910.....		4,939.76
 Total .....		<u>\$1,620,683.66</u>



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ANNUAL REPORT

OF

T. C. TARVER, JR.,

*CITY ENGINEER,*

*For the Year Ending February 28, 1910.*

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## REPORT OF CITY ENGINEER.

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HOUSTON, TEXAS, March 1, 1910.

TO THE HONORABLE H. B. RICE,  
*Mayor City of Houston.*

DEAR SIR:—I have the honor to submit herewith a report of operation of the Engineering Department for the year ending February 28, 1910, together with a summary or brief comparison for the past eight years.

### REVIEW.

The year 1909, just ended, has been the most remarkable year of improvement for the City of Houston. Our building valuation reaches beyond the \$4,000,000.00 mark. Bank deposits exceed any previous year. In fact, business in every way has shown the same marked advance.

The chief improvements noted are those of the city itself:  
The completion of one of our slips at the Turning Basin and work on the second.

The breaking of ground for the city auditorium.  
The work and contract for the continuation of the Austin Street storm drain.

The extension of our sanitary mains in the First and Sixth Wards.

The sanitary sewer for the Fifth Ward.  
The installation of the 15,000,000-gallon pump at the water plant.

The extension of our water mains throughout the city, which includes the 24-inch pressure main in the business district.

The establishment of the Houston Avenue fire station.

The contract for the Sampson Street fire station, on which the work has been started.

And an increase in general in our fire fighting apparatus by the addition of a chemical automobile and other equipment.

The new pavements constructed of brick, bitulithic, shell and gravel; which are tabulated further on in this report.

The work done on repairs this year, due to the continued heavy hauling of building a city, has far overreached the appropriation set apart for it.

The High School Annex was found necessary. Our public school enrollment exceeded the estimated enrollment many hundred.

It can be seen by the Building Inspector's report that factories, warehouses, office buildings, terminal passenger depot, apartment houses and residences are trying hard to keep up the pace set by the city.

Public service corporations, too, have expended a great deal towards permanent improvements. The improvements done by The Houston Electric Company, The Houston Light & Power Company, The Southwestern Telegraph & Telephone Company, and The Houston Gas Comany, are noted here.

The Houston Electric Company has spent \$316,918.52 in the past twelve months for improvements to its system of car service, tracks, power house facilities, etc. They have constructed 0.8 miles of new track, together with relaying on permanent concrete foundation 2.25 miles of its present track. One new unit of 800-kw. capacity, driven by a 1,160 horsepower engine, and two new boilers, were installed at the power station during the past year. This makes the total of 2,100-kw. capacity, with an engine capacity of 3,220 horse power. The company has 50.705 miles of track

The Houston Lighting & Power Company has spent over \$200,000.00 in permanent improvements during the past year. They installed a new unit at the power plant and are now putting in an underground system of wiring for the

business section of our city. This system includes 171,000 duct feet, or 12,000 trench feet, thirty 8x8 man-holes and eighty 4x4 man-holes. This will be a big improvement and add greatly to the looks of our business district.

The Southwestern Telephone and Telegraph Company has built a new exchange in the South End, which will be operating in a short time. Extensions to their wires, both pole and underground line, have been extensive. Their total amount for such improvements for last year was \$138,000.00.

The Houston Gas Company has constructed twelve miles of new mains, besides renewing their old ones in several instances, during the past twelve months.

The yearly expenditure for permanent improvements were \$102,000.00.

Numerous private parties have constructed sewers, sidewalks, curbs, and in other ways shown their willingness to add to the beauty, healthfulness and convenience of our city. All property owners along Stuart Street contributed toward the paving of this street with bitulithic pavement, and petitions asking that different streets be paved by the two-thirds plan, with shell, are now on file.

Many of the unsightly poles have been removed from the streets, and poor pole alignment has been corrected in many cases, through the efforts of Mr. Clarence George, City Electrician.

The result of all the above, besides beautifying the city, has enhanced the value of private property many thousands of dollars.

#### SANITARY SEWERS.

The practice in the past has been to carry off storm water, where it collects, by whatever sewer was near it, with a result that our sanitary sewers are very much overtaxed with storm water. The evil is very rapidly being corrected. The construction of the Austin Street storm sewer relieves the east sanitary sewers at every cross-street where it comes in contact with the sanitary mains. The west

mains were relieved this year at Preston Avenue by an overflow main; and at Texas Avenue, a point where the sanitary mains collected a great deal of storm water, a storm water sewer was built. Down spouts which heretofore had been allowed, are being ordered out, and we find this, too, helps our sewer system. Two hundred and twenty-five thousand dollars is being expended on our sanitary sewers for the extension of mains. Part of these are now completed, and work is being done on the north side of the bayou at present. This work will be fully tabulated in Engineer F. L. Dormant's report.

The report of Sewer Inspector Mr. John Heffernan, shows operation for this department.

#### PAVEMENTS.

The past year has been a severe one on all of the pavements, owing to the continued heavy hauling and the excavations for sewer, gas, water and electric and telephone conduit trenches.

An election was called this year asking property owners, whose property would be enhanced by having paved streets in front of it, to help pay the expense of the pavements. That was one of the best propositions the public was ever asked to vote on. It would have allowed the city to keep up with its prosperous growth, and continue its water mains, sewer and other public necessities and improvements without an increased tax on every one. The proposition was lost. Some of our citizens realizing the advantage of such a proposition, have of their own accord petitioned your honorable body for pavements on the two-thirds basis. One such street has been paved, and a petition for another is ready for your orders to start.

The paving work done during the past twelve months includes bitulithic, brick, shell and gravel pavements. Repairs on our asphalt pavements were kept up by city forces. The accompanying map showing paved streets is self-explanatory.

**BITULITHIC.**

A pretty residence street in the southwestern part of the city was paved with a bitulithic pavement. This pavement is 1,445 feet long and 30 feet wide, and connects Courtland, Avondale, Westmoreland and South End Addition with the Main Street brick pavement. It was the first street to be paved on the basis of the city paying one-third. The pavement makes a pretty street and everyone seems pleased.

**ASPHALT.**

The asphalt repair work this year ran over 10,500 square yards. One of our asphalt streets is too far gone to repair and will have to be replaced with a new pavement next year. This repair work is done by the city forces from this department.

**BRICK.**

The brick paving this year was the continuation of contracts let last year, and the work was done by Contractors A. T. Lucas and John C. Underwood.

The pavements included the connection of the Harrisburg Road brick pavement with the Preston Avenue brick pavement, a strip eight blocks long on Preston Avenue; Walker Avenue, five blocks long, giving the city another paved street in the business district, was alone completed; Dowling Street, connecting Congress and Preston Avenues, is included in the new brick pavements.

**SHELL.**

One mile of shell pavement was put down on Smith Street, 35 feet wide. The concrete curb and gutter was put in at the expense of the property owners, and the city paved the street. This makes a beautiful drive, passing many pretty homes. The shell makes a pleasing street to the eye, and is easily kept in repair. The demand for this class of pavement is so great that in the tabulation these will soon exceed the gravel streets by a large margin.

## GRAVEL.

Commerce Street was graveled for seven blocks by the International & Great Northern Railroad.

Capitol Street was paved by the city from the gravel we took up off Rusk.

Repairs to our gravel streets are needed in all sections of the city, and to save some of them the repairs will have to be made in the near future.

## SIDEWALKS AND CURBS.

The sidewalk and curb work this year has been very satisfactory indeed, and shows a great improvement over previous years. This work has for the most part been voluntarily done by the property owners, who, as a rule, show a tendency to conform with our rulings in lines, grades and width of walks. A much better class of work is being constructed by the contractors than when the work first started, owing to the fact that the inexpereinced contractors who were putting down inferior walks and curbs were forced to replace them at a loss, which soon caused them to hunt other fields.

## SURVEYS AND ESTIMATES.

The surveys made during the past twelve months show an increase of about ten per cent. over last year. These surveys have been made in all parts of the city; in many cases a re-survey of the entire block in which the survey was made had to be made, owing to the way blocks in certain parts of the city have been fenced. The police powers were called on in order that fences, and even houses, which were found to be in the street, be moved.

A number of surveys were made in the central part of town for parties contemplating office, store, warehouse and other improvements of this character.

The revenue from this department does not show more than 50 per cent. of work really done, as much time was

spent making surveys for street openings and grading, from which this office derives no revenue. Streets have been opened up throughout the entire city in the outskirts of the present built-up section, keeping the survey forces busy in this line.

#### BUILDINGS.

The building report of Mr. W. X. Norris, the Building Inspector, is indeed gratifying. The diagram shows the rapid increase in building, and the class of buildings constructed and now under construction is far superior to those of the first five years shown in the diagram.

#### VALUE OF BUILDING PERMITS ISSUED 1902-1909, INCLUSIVE.

JAN 'Y 1, '02,-DEC. 31, '02		\$958,858.00
JAN 'Y 1, '03,-DEC 31, '03		\$1,329,437.00
JAN 'Y 1, '04,-DEC. 31, '04		\$1,409,787.00
JAN 'Y 1, '05,-FEB. 28, '06		\$1,852,880.00
MARCH 1, '06,-FEB. 28, '07		\$2,038,330.00
MARCH 1, '07,-FEB. 28, '08		\$1,761,350.00
MARCH 1, '08,-FEB. 28, '09		\$3,375,723.00
MARCH 1, '09,-FEB. 28, '10		\$4,167,793.00

T. C. TARVER, JR., City Engineer.

W. X. NORRIS, Building Inspector.

#### CONTEMPLATED IMPROVEMENTS.

The improvements planned and contracts let for the next twelve months will exceed the past twelve by a good big margin. Buildings, I estimate to run between \$4,500,000.00 and \$4,700,000.00, permit valuation, which is 30 per cent. below actual cost—in real value over \$5,000,000.00.

Two miles of brick paving on concrete base has been contracted for and work has started. Estimated cost \$105,000.00.

The sewer extensions are partly completed on the North Side and contract let for part of South Side work, which runs \$225,000.00. To these many thousand dollars will be spent for private laterals, by property owners.

Water mains will be again extended out of the water revenue.

The completion of the two slips at the Turning Basin will exceed \$150,000.00.

Two hundred and twenty-five thousand dollars will be spent on the largest storm sewer in the south, the Austin street sewer.

The City Auditorium, one of the finest buildings of its kind in the south, will be completed in the winter of 1910, and will cost \$235,000.00.

The Sampson Street fire station, now under erection, will cost \$8,000.00; another in the Fourth Ward will cost the same.

Five miles of shell paving is to start within the next thirty days, and before the year is out five miles more will probably be done.

Plans have been drawn up for the new bridge across the channel.

The Houston Electric Company will extend their lines in the whole city; their Central Depot tracks to be concrete construction; Caroline Street tracks are now being put in concrete construction, and Harrisburg Road double tracked in the same construction. Many other extensions are mapped out for the betterment of the Fifth Ward, the territory lying between White Oak and Buffalo Bayous, the territory in the southeastern section of the city, and the territory outside of the city around the Rice Institution.

The Houston Light & Power Company is making extensive improvements in their plant, by the installation of a new unit. They are constructing underground conduits along Main and Franklin Streets now, which will replace the unsightly poles standing in our business streets.

The Southwestern Telegraph & Telephone Company is extending all their lines in every direction, and have found it necessary to install a new exchange in the South End, making the second exchange installed outside of the main exchange.

Railroads, business firms and private parties are making notable improvements everywhere in the city, which goes to show what a future is in store for Greater Houston.

#### RECOMMENDATIONS.

*First*—The extension of the present fire limit. The business district is rapidly spreading and is blocked on all sides by wooden and fire-trap buildings.

*Second*—A revision of the plumbing ordinance to take in the new methods of plumbing used on large buildings.

*Third*—A systematic numbering of houses. There is an apparent neglect of property owners to maintain proper numbers in parts of the residence districts.

*Fourth*—That two or more streets in the city having the same name be given different names.

The pavement map and tables hereto attached are self-explanatory and show in detail the amounts expended and the work accomplished by this department during the twelve months ending February 28th, 1910, together with a comparison of a few years back.

#### CONCLUSION.

I desire to express my thanks to you and the commissioners, and every department which I have come in contact with, for courtesies and co-operation; and also to commend the members of this department for faithful discharge of their duties; and to thank the public in general for their co-operation in bringing about the many things that have been accomplished through their aid.

Respectfully submitted,

T. C. TARVER, JR.,  
*City Engineer.*

**Statement of Revenue, Expense and Unexpended Appropriation for  
the Annual Report of February 28, 1910.**

**REVENUE.**

	24-A Surveying Fees	24-B Building Permits	24-C Plumbing Permits and Sewer In- spection Fees	24-D-Others, Street Open- ing and Drain Laying Permit Fees	Total for the Year
March.....	\$113.00	\$302.00	\$172.85	\$35.50	\$623.35
April.....	75.50	181.50	142.00	46.00	445.00
May.....	66.50	192.50	124.60	69.00	452.60
June.....	78.00	139.50	127.40	62.50	407.40
July.....	78.00	122.00	118.25	47.50	365.75
August.....	70.50	192.50	136.15	54.50	453.65
September.....	73.50	518.00	92.00	38.00	721.50
October.....	68.00	94.50	108.00	35.50	306.00
November.....	59.50	118.00	100.45	41.00	318.95
December.....	90.50	121.50	77.45	48.00	337.45
January.....	42.50	437.00	66.25	31.50	577.25
February.....	53.50	236.00	114.55	54.20	458.25
Total for 12 mos. ending February 28, 1910.....	\$869.00	\$2655.00	\$1379.95	\$563.20	\$5467.15
Total for 12 mos. ending February 28, 1909.....	\$804.50	\$2360.50	\$1093.55	\$261.00	\$4519.55
Increase .....	\$ 64.50	\$ 294.50	\$ 286.40	\$302.20	\$ 957.60

Total amount of revenue increase for year ending February 28,  
1910, over year ending February 28, 1909.....\$957.60

**EXPENSE.**

	24-A Salaries	24-B Repairs and Renewals of Instruments	24-C Stationery and Printing	24-D Others	Totals
March.....	\$ 870.00	\$ 4.10	\$28.13	\$54.25	\$956.48
April.....	795.00	.....	1.09	27.00	823.09
May.....	795.00	.35	33.40	59.50	888.25
June.....	773.05	.25	16.88	47.00	837.18
July.....	704.00	.25	.75	28.00	733.00
August.....	685.00	.....	28.11	27.00	740.11
September.....	675.00	.....	13.50	33.05	721.55
October.....	779.45	.....	6.27	28.00	813.72
November.....	760.00	.....	1.63	27.00	788.63
December.....	722.50	.....	.75	29.49	752.74
January.....	741.70	.....	11.70	27.00	780.40
February.....	750.00	.....	39.60	7.00	796.60
Totals.....	\$9050.70	\$4.95	\$181.81	\$394.29	\$9631.75

Total expense for year ending February 28, 1910.....\$ 9,631.75

Total expense for year ending February 28, 1909.....10,500.65

Decrease for year ending February 28, 1910, over year end-  
ing 1909.....\$ 868.90

Appropriation for year ending February 28, 1910.....\$12,000.00

Expense for year ending February 28, 1910.....9,631.75

Amount unexpended.....\$ 2,368.25

**New Pavements for the Year 1910.****BRICK PAVEMENTS.***Preston Ave., from Crawford to Dowling St.—*

Length .....	2,251 ft.
Width (Crawford to G. C. & S. F. tracks).....	20 ft.
Width (G. C. & S. F. tracks to Dowling St).....	35 ft.
Square yards .....	5,726.5
Total cost .....	\$15,217.76
Deductions (Houston Electric Company).....	<u>667.65</u>
Cost to City.....	\$14,550.11
Cost per square yard.....	\$2.54
(N. B.—4-inch concrete foundation; 1-inch sand cushion; Thurber brick, with asphalt filler.)	

*Dowling St., from Preston to Congress St.—*

Length .....	246 ft.
Width (not including car track).....	45 ft.
Square yards .....	1,146.3
Cost .....	\$3,164.92
Deductions (Houston Electric Company).....	<u>223.10</u>
Total cost to City.....	\$2,941.82
Cost per square yard.....	\$2.56%
(N. B.—4-inch concrete foundation; 1-inch sand cushion; Thurber block, with asphalt filler.)	

*Walker Ave., from west line of Caroline to west line of Milam Sts.—*

Length .....	1,652 ft.
Width .....	34.5 ft.
Square yards .....	6,000
Total cost .....	\$17,703.49
Deductions (Houston Electric Company).....	<u>385.53</u>
Total cost to City.....	\$17,317.96
Cost per square yard.....	\$2.885
(N. B.—6-inch concrete foundation; 1-inch sand cushion; Coffeyville Thurber block, with asphalt filler.)	

## THE FOLLOWING STREETS TO BE PAVED WITH BRICK WITHIN THE NEXT NINE MONTHS.

San Jacinto Street, from Leeland to McGowen Streets.

Main Street, from Berry to G. H. &amp; S. A. tracks.

Travis Street, from Dallas to Leeland Street.

Washington Street, from Glenwood Cemetery to S. P. tracks.

(N. B.—4-inch concrete foundation; 1-inch sand cushion; Coffeyville block, with asphalt filler.)

## BITULITHIC PAVING.

*Stuart Ave., from west line of Main to Courtland entrance—*

Length .....	1,445 ft.
Width .....	.30 ft.
Total square yards.....	5,039.69
(City paid for one-third fronting property and in full for intersections.)	

*City portion—*

Square yards .....	2,586.8
Cost to City.....	\$6,552.38

## ASPHALT REPAIRS.

Total square yards.....	10,557.26
Cost, labor and material.....	\$14,105.75
Deductions (Houston Electric Company and others).....	\$5,199.70
Material on hand.....	\$531.67
Total cost to City.....	\$8,374.38
Cost per square yard.....	\$0.792

## SHELL PAVEMENTS.

*Smith St., from Francis to Calhoun St.—*

Length .....	4,420 ft.
Width .....	.35 ft.
Square yards .....	17,188
Total cost .....	\$8,554.94
Cost per square yard.....	\$0.497

*Flora St., from Hawthorn to Ross St.—*

Length .....	1,232 ft.
Width .....	.18 ft.
Square yards .....	2,464

*Emerson St., from Burlington to Garrott Sts.—*

Length .....	1,073 ft.
Width .....	.18 ft.
Square yards .....	2,180

*Westmoreland Ave., from Louisiana to Garrott Sts.—*

Length .....	1,073 ft.
Width .....	.30 ft.
Square yards .....	3,577

*Gray Ave., from Main to Milam Sts.—*

Length .....	.660 ft.
Width .....	.35 ft.
Square yards .....	2,566
Total cost .....	\$1,073.80
Cost per square yard.....	\$0.43

*Chenevert St., from Tuam to Elgin Sts.—*

Length .....	750 ft.
Width .....	18 ft.
Square yards .....	1,500
Total cost .....	\$690.48
Cost per square yard.....	\$0.46

## GRAVEL PAVEMENTS.

*Commerce St., from I. & G. N. crossing to Palmer St.—*

Length .....	3,000 ft.
Width .....	40 ft.
Square yards .....	13,333

(NOTE.—This street paved by I. & G. N. Ry. Co. at their expense.  
To be continued out to Milby St.)

*Capitol Ave., from Caroline to LaBranch Sts.—*

Length .....	630 ft.
Width .....	30 ft.
Square yards .....	1,200

(NOTE.—Resurfaced with gravel taken off Rusk Ave.)

## TABULATIONS.

Class.	1909.	1910.	Increase.
	Sq. Yds.	Sq. Yds.	
Asphalt .....	160,462	160,462	.....
Brick .....	342,714	355,586	12,872
Belgian blocks.....	1,892	1,892	.....
Bois d'Arc.....	49,833	49,833	.....
Macadam .....	36,948	36,948	.....
Gravel .....	607,418	621,951	14,533
Shell .....	66,923	96,387	29,464
Bitulithic .....	.....	5,039	5,039
Totals .....	1,266,190	1,328,098	61,908
Mileage of 1910.....	.....	78.79	
Mileage of 1909.....	.....	75.32	
Increase 1910 over 1909.....	.....	3.47 Miles	
Asphalt repairs.....	.....	10,557.2 s. yds.	



*Chenevert St., from Tuam to Elgin Sts.—*

Length .....	750 ft.
Width .....	18 ft.
Square yards .....	1,500
Total cost .....	\$690.48
Cost per square yard.....	\$0.46

## GRAVEL PAVEMENTS.

*Commerce St., from I. & G. N. crossing to Palmer St.—*

Length .....	3,000 ft.
Width .....	40 ft.
Square yards .....	13,333

(NOTE.—This street paved by I. & G. N. Ry. Co. at their expense.  
To be continued out to Milby St.)

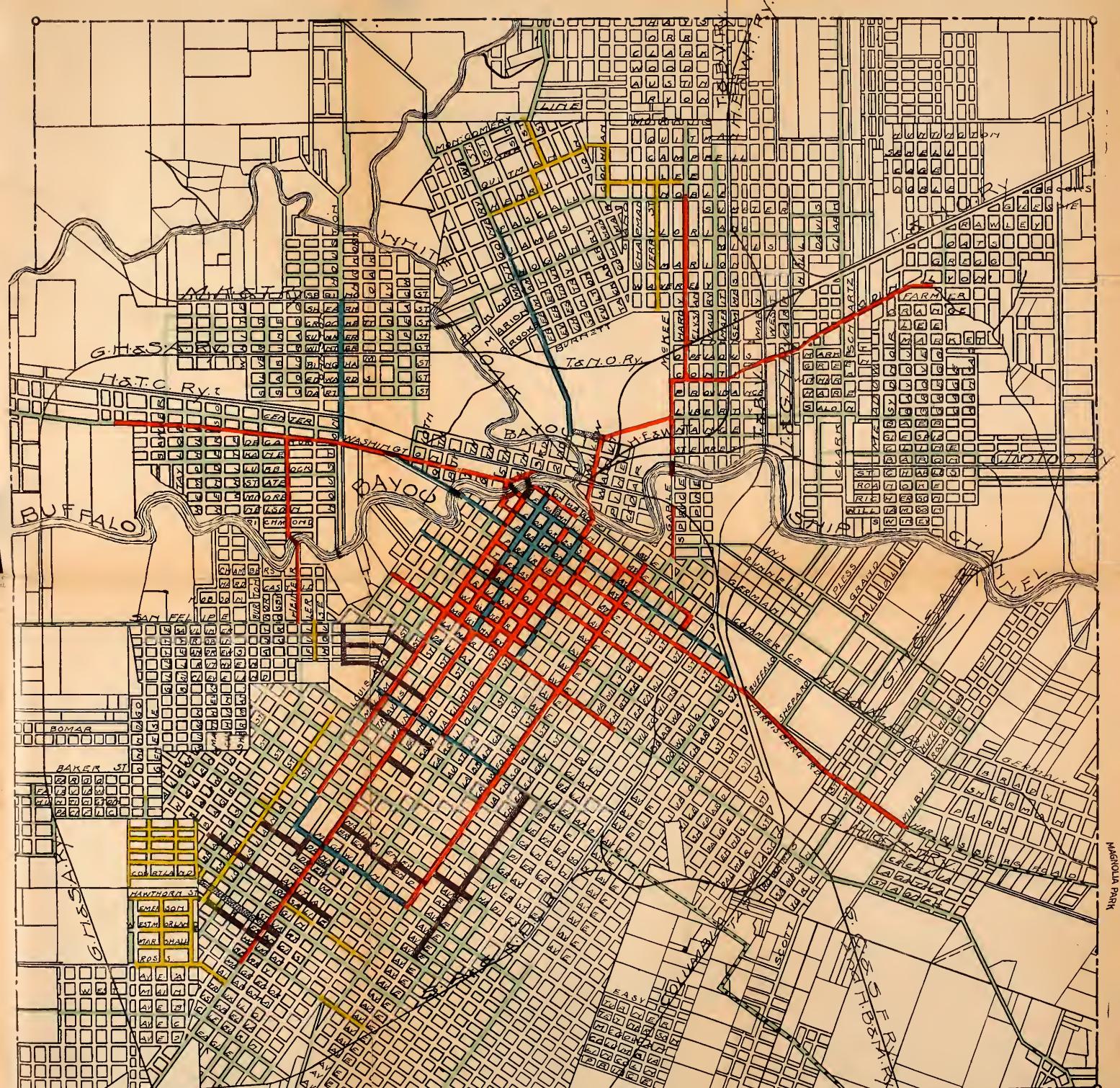
*Capitol Ave., from Caroline to LaBranch Sts.—*

Length .....	630 ft.
Width .....	30 ft.
Square yards .....	1,200

(NOTE.—Resurfaced with gravel taken off Rusk Ave.)

## TABULATIONS.

Class.	1909.	1910.	Increase.
	Sq. Yds.	Sq. Yds.	
Asphalt .....	160,462	160,462	.....
Brick .....	342,714	355,586	12,872
Belgian blocks.....	1,892	1,892	.....
Bois d'Arc.....	49,833	49,833	.....
Macadam .....	36,948	36,948	.....
Gravel .....	607,418	621,951	14,533
Shell .....	66,923	96,387	29,464
Bitulithic .....	.....	5,039	5,039
Totals .....	1,266,190	1,328,098	61,908
Mileage of 1910.....	.....	78.79	
Mileage of 1909.....	.....	75.32	
Increase 1910 over 1909.....	.....	3.47 Miles	
Asphalt repairs.....	.....	10,557.2 s. yds.	



SHOWING PAVEMENTS 1910

Brick..... Shell..... Belgian Block.....  
Asphalt..... Röis D'arc Block..... Macadam.....  
Blaulithic..... Gravel.....

MAP  
CITY OF HOUSTON

ENGINEERING DEPARTMENT  
T. C. TARVER, JR. ENGINEER



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ANNUAL REPORT

OF

W. X. NORRIS,

*BUILDING INSPECTOR,*

*For the Year Ending February 28, 1910.*

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## REPORT OF BUILDING INSPECTOR.

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HOUSTON, TEXAS, March 10th, 1910.

TO THE HON. H. B. RICE,  
*Mayor, City of Houston, Texas.*

DEAR SIR:—I have the honor to submit my report on the Department of Building. The recommendation of Building Inspector W. X. Norris for the extension of the roof and fire limits is a good one, and I wish to heartily approve it.

Some of the frame fire-traps bordering on our present limits are dangerous to life and property of our citizens, besides being objectionable to prospective builders adjoining.

The diagram herewith will show the growth of our city in buildings for the past eight years.

The drop for the twelve months ending February 29, 1908, was due to the panic and was felt all over the country.

Tabulation and additional remarks under my report as City Engineer.

Respectfully submitted,

T. C. TARVER, JR.,  
*City Engineer.*

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HOUSTON, TEXAS, March 10th, 1910.

To THE HON. H. B. RICE,  
*Mayor, City of Houston, Texas.*

DEAR SIR:—I hereto attach tabulated statement, showing value of buildings, repairs, etc., constructed during the past year, and fees collected by this department.

Expenses of the department are shown in the report of the City Engineer.

The progress of building for the past year and prospects for the coming year compels me to recommend that the roof and fire limits be extended. At the present, frame buildings can be built too near the business section of the city.

Respectfully submitted,  
W. X. NORRIS,  
*City Building Inspector.*

**Number of Building Permits and Amount of Fees for the Twelve Months Ending February 28, 1909 and 1910.**

**REVENUE.**

	1908-1909		1909-1910	
	Permits	Fees	Permits	Fees
March.....	78	\$274.50	64	\$302.00
April.....	59	151.50	111	181.50
May.....	67	117.50	61	192.50
June.....	50	109.00	62	139.50
July.....	53	100.00	56	122.00
August.....	69	98.50	69	192.50
September.....	56	207.50	59	518.00
October.....	57	379.00	68	94.50
November.....	58	333.00	49	118.00
December.....	53	333.50	40	121.50
January.....	60	141.50	63	437.00
February.....	51	115.00	59	236.00
Total.....	711	\$2,360.50	761	\$2,655.00
			Permits.	Fees.
Total for the year ending February 28, 1909.....			711	\$2,360.50
Total for the year ending February 28, 1910.....			761	2,655.00
Increase last 12 months over previous 12 months..			50	\$ 294.50

**Permit Valuation of Additions and Repairs During the Twelve Months Ending February, 1909 and 1910.**

	1908-1909		1909-1910	
	Permits	Valuation	Permits	Valuation
March.....	44	\$ 6,540.00	81	\$23,790.00
April.....	70	6,485.00	68	13,845.00
May.....	72	8,610.00	63	14,681.00
June.....	65	12,028.00	68	66,870.00
July.....	73	17,435.00	56	10,943.00
August.....	49	6,387.00	64	26,355.00
September.....	63	11,341.00	59	19,425.00
October.....	74	40,377.00	86	17,474.00
November.....	56	6,349.00	48	12,120.00
December.....	46	5,667.00	49	8,715.00
January.....	59	9,996.00	53	14,010.00
February.....	48	8,412.00	55	28,435.00
Total.....	719	\$139,627.00	750	\$256,663.00
			Permits.	Valuation.
Total for the year ending February 28, 1909.....			719	\$139,627.00
Total for the year ending February 28, 1910.....			750	256,663.00
Increase last 12 months over previous 12 months.			31	\$117,036.00

## Classifications of Permanent Improvements.

No.	KIND OF BUILDING	No. of Bldgs.	Valuations
1	3-story Passenger Depot and Train Shed.....	1	\$600,000.00
1	16-story Brick and Steel Office Building.....	1	500,000.00
1	6-story Brick and Reinforced Concrete Flat.....	1	326,000.00
1	3-story Brick and Concrete Auditorium.....	1	235,000.00
1	4-story Reinforced Concrete Warehouse.....	1	60,000.00
1	3-story Reinforced Concrete Telephone Bldg.....	1	28,300.00
1	4-story Sanitarium (Concrete).....	1	75,000.00
1	6-story Mill Construction Warehouse.....	1	90,000.00
1	5-story Brick and Steel Building.....	1	30,000.00
1	2-story Marble and Steel Bank Building.....	1	93,000.00
12	Flat Buildings.....	12	224,450.00
1	2-story Reinforced Concrete Store Buidling.....	1	35,000.00
1	Church (First Methodist).....	1	160,000.00
1	Church (Roman Catholic).....	1	6,700.00
1	5-story Theatre Building.....	1	150,000.00
1	3-story Brick Warehouse.....	1	60,000.00
5	Automobile Garages.....	5	42,800.00
1	Round House and Office.....	1	15,000.00
1	2-story Brick Residence.....	1	25,000.00
1	2-story Brick Veneered Residence.....	1	12,000.00
1	3-story Reinforced Concrete Laundry.....	1	50,000.00
1	2-story Brick Stable.....	1	9,500.00
1	Brick Lumber Shed.....	1	8,000.00
1	2-story Brick Fire Engine House No. 2.....	1	7,596.00
3	2-story Brick Store Buildings.....	1	28,500.00
9	Warehouses.....	9	65,100.00
4	Remodelings.....	4	50,600.00
5	1-story Brick Buildings.....	5	14,750.00
1	2-story Brick Vault.....	1	3,000.00
1	2-story Frame School House.....	1	5,700.00
2	Frame Warehouses.....	2	2,800.00
1	Frame Car Shed.....	1	4,500.00
1	Ice Factory.....	1	2,250.00
1	Planing Mill.....	1	1,000.00
2	Cellars and Foundation.....	2	15,000.00
186	2-story Residence.....	186	496,025.00
338	Cottages.....	338	335,910.00
191	Stables and Sheds.....	191	42,649.00
			\$3,911,130.00

Valuation of 761 permits, ending February 28, 1910.....\$3,911,130.00

Valuation of 711 permits, ending February 28, 1909..... 3,375,723.00

Increase in value for year ending February, 1910, over  
1909 ..... \$ 535,407.06

Total value temporary permits, year ending February, 1910. \$ 256,663.00

Total value permanent permits, year ending February, 1910. 3,911,130.00

Total ..... \$4,167,793.00

Total value for 12 months ending February 28, 1910.....\$4,167,793.00

Total value for 12 months ending February 28, 1909..... 3,515,350.00

Increase of last 12 months over previous 12 months....\$ 652,443.00



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ANNUAL REPORT

OF

JOHN HEFFERNAN,

SEWER AND PLUMBING INSPECTOR,

*For the Year Ending February 28, 1910.*

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## REPORT OF SEWER INSPECTOR.

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HOUSTON, TEXAS, March 10th, 1910.

To THE HON. H. B. RICE,  
*Mayor, City of Houston, Texas.*

DEAR SIR:—I have the honor to hand you herewith a report of the operations for the Sewer Department for the year ending February 28, 1910.

The extensions of sewers in all sections of the city is covered in the report of Engineer F. L. Dormant, and I won't attempt to report on these.

The great increase in mains necessarily increases the operating expense of this department. The man-holes in the district near the City Auditorium site are too low, as we are filling in this section of town, and must be raised, also several others in other sections of town should be raised.

The small operating expense of the air lift and other necessary repairs to the plant on Willow Street are to be done next year.

I would recommend that as we have outgrown the budget for this department, it be increased. Would also recommend that a park, or playground, be made at the air-lift grounds. It is a pretty residence part of town, at the foot of two paved streets and on the South End car line. This would add much to the looks of the plant and beautify that section of town.

Would also recommend that the ordinance governing plumbing be revised, as there are too many laundries emptying hot water into our sewers, thus making it difficult to fix stoppages and adjust the screens at Milam Street syphon.

The tabulations and report of Mr. John Heffernan are hereto attached.

Respectfully submitted,

T. C. TARVER, JR.,  
*City Engineer.*

HOUSTON, TEXAS, March 10th, 1910.

To THE HON. H. B. RICE,  
*Mayor, City of Houston, Texas.*

DEAR SIR:—I hereto attach a tabulated statement of the work done under my supervision for the year ending March 1, 1910.

I would recommend that the ordinance governing plumbing be revised and an examining board be appointed.

Automobile garages, laundries and restaurants to have larger catch-basins, constructed under the direction of this office.

Automobile garages, on account of gasoline; laundries, for the large amount of hot water; restaurants, to prevent grease stoppages; all of which cause more or less trouble at different times during the year.

There are also several man-holes that should be raised, which have been covered up from change of grade of the street and are difficult to locate when most needed.

Respectfully submitted,  
JNO. HEFFERNAN,  
*City Sewer and Plumbing Inspector.*

**SEWER SYSTEM.****Statement of Expense for Twelve Months Ending February 28, 1910.**

1908 and 1909	SANITARY SEWER SYSTEM				(f) Sewer Repairs and Renewals	(g) Sewer Inspec- tions	(h) Others
	(a) Operation	(b) Repairs and Renewals	(c) Filter Beds	(e) Others			
March.....	\$1000.90	\$185.83	\$484.10	\$64.70	1118.47	\$125.00	\$55.00
April.....	978.25	181.04	390.94	6.25	122.50	125.00	47.00
May.....	1320.87	338.75	476.50	5.00	165.20	125.00	26.55
June.....	1032.14	184.73	396.98	6.25	125.00	125.00	65.25
July.....	986.10	188.15	412.75	9.35	151.75	125.00	46.45
August....	1063.06	200.53	491.80	6.25	157.65	125.00	46.50
September..	1273.48	117.33	418.25	6.25	166.90	125.00	47.65
October....	1061.94	142.11	405.40	6.25	278.60	125.00	46.50
November..	1297.67	134.00	478.20	5.05	166.05	125.00	52.00
December...	717.63	170.00	401.88	8.75	237.37	125.00	48.80
January....	1346.89	131.46	385.80	13.00	773.52	125.00	52.45
February...	1117.52	106.58	397.40	9.00	150.95	125.00	28.85
Total...	13196.45	2080.51	5130.00	\$146.10	3613.96	1500.00	\$563.00

Total expense for Sewer Department, year ending February 28, 1910 ..... \$26,230.02  
 Total expense for Sewer Department, year ending February 28, 1909 ..... 25,140.43  
 Increase of last year over previous year..... \$ 1,089.59  
 Appropriation for year ending February 28, 1910 ..... \$25,000.00  
 Expense for year ending February 28, 1910 ..... 26,230.02  
 Amount expended over and above appropriation..... \$ 1,230.02

**FEES COLLECTED.**

Plumbing permits—24-C—plumbing inspection fees..... \$1,379.95  
 Sewer connections—24-D—drain and street opening fees..... 563.20  
 Total ..... \$1,943.15  
 Total amount fees collected for the year ending February 28, 1910 ..... \$1,943.15  
 Total amount fees collected for the year ending February 28, 1909 ..... 1,354.55  
 Total increase for year ending February 28, 1910, over 1909. \$ 588.60

**Plumbing Fixtures Installed During the Twelve Months  
Ending February 28, 1910.**

Month	Plumbing Permits	Closets	Bath	Basin	Sink	Urinals	Miscellaneous Fixtures	Total Fixtures	Drain Laying Permits	Inspections	House Connections
March.....	58	183	85	296	88	2	14	668	19	94	32
April.....	53	127	88	198	64	17	....	494	36	89	26
May.....	49	78	68	53	53	2	5	259	29	83	23
June.....	50	91	71	79	66	....	....	307	39	95	28
July.....	51	72	57	73	44	....	2	248	29	80	28
August.....	58	99	70	85	54	3	5	316	19	75	38
September.....	34	41	63	46	11	11	6	178	13	60	15
October.....	60	78	46	51	44	1	2	222	15	80	34
Noyember.....	42	85	63	85	43	7	35	318	9	62	22
December.....	24	55	41	134	33	6	5	274	10	51	19
January.....	27	44	30	30	28	3	19	154	16	52	19
February.....	33	60	66	94	53	1	6	280	28	76	25
Total.....	539	1013	748	1224	581	53	99	3718	262	897	309

Closets .....	1,013
Baths .....	748
Basins .....	1,224
Sinks .....	581
Urinals .....	53
Miscellaneous fixtures .....	99
Total fixtures installed 12 months ending February 28, 1910.....	3,718
Total fixtures installed 12 months ending February 28, 1909.....	2,674
Increase last 12 months over previous 12 months.....	1,044
Sewer connections for 12 months ending February 28, 1910.....	262
Sewer connections for 12 months ending February 28, 1909.....	140
Increase of last 12 months over previous 12 months.....	122
Plumbing permits for 12 months ending February 28, 1910.....	539
Plumbing permits for 12 months ending February 28, 1909.....	532
Increase of last 12 months over previous 12 months.....	7
Total number house connections for the 12 months ending Febru- ary 28, 1910.....	309

**Work Done by Sewer Cleaners.**

MONTH	Manhole Inspections	Catch Basin Inspections	Stoppages Removed	Flush Tank Inspections	Repaired Broken Sewers
March.....	170	567	2	38	5
April.....	272	429	3	16	6
May.....	163	672	1	32	2
June.....	188	315	3	11	1
July.....	146	210	1	6	1
August.....	160	348	3	14	.....
September...	157	317	5	14	1
October....	180	663	4	4	2
November...	67	340	3	19	1
December....	115	282	5	7	3
January.....	192	450	3	8	4
February....	87	440	2	19	5
Totals.	1897	5033	35	188	32

**The Following Private Sewers Were Constructed During the Twelve Months Ending February 28, 1910.**

220 ft. 6-inch sewer on Hemphill, from Washington to Center St.  
 200 ft. 6-inch sewer on Barbee, from Caroline to West St.  
 250 ft. 6-inch sewer on Center, from Hemphill west to S. W. T. C. Bldg.  
 300 ft. 6-inch sewer, on Holly, from Edwards south to Wells Fargo stable.  
 275 ft. 6-inch sewer on Holly, from Edwards south.  
 670 ft. 6-inch sewer in alley, from Fannin to Main St. from Eagle St.  
 200 ft. 6-inch sewer on Alabama, from Burlington St. east.  
 300 ft. 6-inch sewer on Baldwin, from Pierce to Calhoun Sts.  
 200 ft. 6-inch sewer east on Calhoun from Baldwin St.  
 300 ft. 6-inch sewer in alley between Milby and Mason to Huntington Street.  
 230 ft. 8-inch sewer on Fannin, from Alabama to MacGregor St.  
 500 ft. 8-inch sewer on Caroline, from Eagle to Wheeler St.  
 570 ft. 15-inch sewer on Texas Ave., from Fannin to Travis St.  
 696 ft. 15-inch sewer on Rusk, from Travis to Fannin St.  
 920 ft. 15-inch sewer on Rusk, from Louisiana to the Carter Bldg.

8531 ft.

Total number feet of private sewers laid, year ending February 28,	
1910 .....	8,531
Total laid in year ending February 28, 1909.....	8,055

Increase last 12 months over previous 12 months.....	476
Length of sewer laid during 12 months ending February 28,	
1910 .....	1.61 miles
Number of manholes constructed.....	.12

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**ANNUAL REPORT**

OF

**FRANK L. DORMANT,**  
*CONSULTING ENGINEER,*

*For the Year Ending February 28, 1910.*

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## REPORT OF CONSULTING ENGINEER.

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HOUSTON, TEXAS, March 1, 1910.

HON. H. B. RICE,  
*Mayor City of Houston.*

DEAR SIR:—I have the honor to transmit herewith report covering the work done under my charge for the last fiscal year.

### THE AUSTIN STREET STORM SEWER.

The sewer is an extension of the storm sewer previously built from Buffalo Ship Channel to Preston Street.

The contract for the extension was let to Horton & Horton, local contractors. Four different classes of construction were contemplated, namely, brick, reinforced concrete, reinforced block construction in open trench, and reinforced concrete block construction in tunnel.

The type of reinforced block construction in tunnel was adopted on account of its economical features. The great advantage of this class of construction is that the original surface of the street is not disturbed, the work being done by the sinking of shafts in which the manholes are built, and the tunnels for the sewer being excavated from the bottom of the shaft in both directions.

If this sewer was being constructed in open cut it would have required a ditch twenty-seven feet deep, and fourteen feet wide, and the excavation would have had to be placed on both sides of the ditch and would have taken up so much room that people living on Austin Street would practically have been unable to secure egress and ingress to their homes. In open cut the amount of excavation would have been 84,000 cubic yards, whereas in tunnel it only takes 24,000 cubic

yards, making a saving of 60,000 cubic yards. As the dirt is removed from the tunnel it is hauled away to various places in the city.

Another advantage of this class of construction is that the work can and does go on night and day, rain or sunshine, and does not interfere with street railway travel or pedestrians. It is interesting to state that the Austin Street sewer is the largest one of this class of construction in the United States, the largest one prior to the commencement of the Austin Street sewer being six feet, six inches, and having been built in the city of Toledo, Ohio.

As the construction of this sewer proceeds, catch-basins of a new type are constructed at the intersections of the streets crossing Austin Street, and the catch-basins now connected with the sanitary system are disconnected.

The contract for this sewer calls for the following sizes and distances:

10 feet diameter from Preston Avenue to Dallas Avenue, a distance of 2,640 feet.

9 feet diameter from Dallas Avenue to Calhoun Avenue, a distance of 2,310 feet.

8 feet diameter from Calhoun Street to McGowen Avenue, a distance of 2,150 feet.

7 feet diameter from McGowen Avenue to Elgin Avenue, a distance of 1,700 feet.

At Calhoun Street the flow line of the Austin Street storm sewer will be 23 feet below the surface of the street, and 19½ feet below the bottom of the Calhoun Street ditch.

At Elgin Avenue the flow line of the sewer will be 18½ feet below the surface of the street and 14½ feet below the bottom of the Elgin Street ditch.

Both the Calhoun Street and Elgin Avenue ditches will be done away with, and lateral storm sewers put in both streets.

At Elgin Avenue the Austin Street sewer will be deep enough to be extended as far as the Aransas Pass railroad, a distance of about 3,000 feet, and at that point will still be deep enough to drain a large territory.

**FIRST AND SIXTH WARD SANITARY SEWERS.**

The amount set aside for the First Ward is \$15,000.00, and for the Sixth Ward \$12,000.00, a total of \$27,000.00. This contract was awarded to John C. Underwood, and at this time is well under way and will be completed some time in March. As the system now being put in consists of the main receiving pipes, the pipes are being laid at such a depth that the whole First and Sixth Wards can be completely sewer'd and will constitute a separate system.

The Sixth Ward main lateral commences at the intersection of Tenth Street and Washington Avenue, then continues on Washington Avenue to Young Street. On Young Street it turns south and runs to Lubbock. Thence it runs on Lubbock west as far as the appropriation will go.

The First Ward system commences at the intersection of Washington Avenue and Ninth Street; thence west on Washington to Tenth Street; thence north on Tenth Street to Dart Street; thence west on Dart Street to Holly Street; thence north on Holly Street to Crockett Street; thence west on Crockett Street as far as the appropriation will go.

**PROPOSED SEWERS IN THE FIRST AND SIXTH WARDS.**

After extension and completion of main sewers in both the First and Sixth Wards, which, as before stated, are of large size and great depth, the construction of lateral sewers will not be near so expensive, these proposed laterals being mostly of the eight-inch size, and will not be as deep in the ground as the main pipes.

**PROPOSED LATERALS.**

On Spring Street, from Taylor Street to Holly Street.

On Shearn Street, from Taylor Street to Holly Street.

On Crockett Street, from Taylor Street to present terminus on Crockett.

On Summer Street, from Taylor Street to Holly Street.

On Winter Street, from Taylor Street to Holly Street.

On Bingham Street, from Colorado Street to Silver Street.

On Edwards Street, from Houston Avenue to Silver Street.

On Dart Street, from Houston Avenue to Silver Street.

On Bingham Street, from Hickory Street to Holly Street.

On Dart Street, from Houston Avenue to Holly Street.

On Silver Street, from Crockett Street to Lubbock Street.

On Center Street, from Houston Avenue to Brashear Street.

On Union Street, from Sawyer to Silver Street.

On Decatur Street, from Sawyer Street to Silver Street.

On Kane Street, from Hemphill Street to Silver Street.

On Lubbock Street, from Hemphill Street to Silver Street.

On State Street, from Hemphill to Trinity Street.

On Moore Street, from White Street to Trinity Street.

On Colorado Street, from Crockett to Weber Street.

With laterals on Weber, Alamo and Ovid, between Houston Avenue and Sabine Streets.

Also small laterals on Trinity and other short streets.

The main pipe on Silver Street will be of such depth that the laterals can be built on Washington Avenue west for a large distance.

All of the above work will comprise eight miles of sewers with the necessary manholes and flush-tanks. The approximate cost of the proposed extensions is \$84,480.00.

#### SECOND WARD SANITARY SEWERS.

The system for this ward, as originally contemplated, consisted of a sewer commencing on York and Dallas Streets; thence north on York Street to Engelke Street; thence west on Engelke Street to Middle Street; thence north on Middle Street to Buffalo Bayou, where it was proposed to construct a syphon under the bayou and erect a pumping station on the north side of the bayou near Grove and Swiney Streets. The sewage from the Second Ward was

to discharge through the syphon into a receiving basin at this pumping station, thence to be lifted by pumps to a connection with the 24-inch pressure main now leading to the filter-beds five miles east of the city. The city now having under construction sanitary sewers in the First, Fifth and Sixth Wards, and other extensions of the system in the Fourth Ward to be connected with the present pumping station, it was deemed advisable not to use the present pumping station on Willow Street, as this station and the filter-bed, after all the above mentioned sewers are completed, will be taxed to its capacity. It was, therefore, decided to seek another outlet for all future sanitary sewers to be constructed on the south side of the Channel and to provide another system of filter-beds or a sewage farm located southeasterly from the city.

#### THE REVISED SANITARY SYSTEM OF THE SECOND WARD.

The main collecting sewer will be located on York Street and commences at the intersection of Engelke and York Streets; thence it runs south from Engelke Street, on York Street to Polk Avenue.

The following laterals will be built, viz.: :

A sewer on Runnels Street, commencing at the Santa Fe Railroad; thence east on Runnels to Shepherd Street; thence south on Shepherd Street to Commerce Street; thence east on Commerce Street to York Street.

A sewer on German Street, commencing at the International & Great Northern Railroad; thence east on German Street to Shepherd Street.

A sewer on Commerce Street, commencing at the International & Great Northern Railroad and running east on Commerce Street to a connection with the sewer on Shepherd Street.

A sewer on German Street, from Shepherd Street to Palmer Street.

Lateral sewers on Paige, Ennis and Palmer Streets.

A sewer on Engelke Street, from Palmer to Milby Streets.

A sewer on Runnels Street, from Sampson Street to Milby Street.

A sewer on Park Street, from Sampson to Milby Street.

A sewer on German Street, from Sampson to Milby Streets.

A sewer on Magnolia Street, from Sampson to York Streets.

A sewer on Hutchins Street, from Engelke Street north.

A sewer on Rosalie Street, from Engelke Street north.

A system of laterals on South, Maple, Gable, Lyle and Vine Streets.

All of the above sewers will cost \$80,000.00, the amount set aside for the construction of sanitary sewers in the Second Ward, and are indicated on the attached map in dotted red lines.

#### PROPOSED SEWERS FOR THE SECOND WARD.

To thoroughly sewer that portion of the city lying east of and adjacent to the International & Great Northern Railroad, the following laterals will have to be constructed:

A lateral on Franklin Avenue, from York Street west to Shepherd Street.

A lateral on Congress Avenue, from York Street west to Shepherd Street.

A lateral on Preston Avenue, from York Street west to Shepherd Street.

A lateral on the Harrisburg Road, from Milby to the Preston Avenue tunnel.

A lateral on Texas Avenue, from Milby to Palmer Street.

A lateral on Capitol, from York Street to Aransas Pass Railway.

A lateral on Rusk Avenue, from York Street to Aransas Pass Railway.

A lateral on Walker, from York Street to Aransas Pass Railway.

PROPOSED CONSTRUCTION OF EXTENSION FROM YORK AND  
POLK AVENUE INTERSECTION TO PROPOSED FILTER-  
BEDS OR SEWAGE FARM.

It is proposed to commence at the end of the sewer to be shortly constructed on the north line of the Luke Moore survey, and to build an extension on Scott Street to a point near Mabel Avenue, a distance of 5,531 feet; thence to run east for a distance of 344 feet to the county road, and from this point to continue south a distance of 8,525 feet to the county road on the south line of the Luke Moore survey; thence east along this county road a distance of 10,692 feet to a point on the west side of the county road, running parallel with the Gulf, Colorado & Santa Fe Railway; thence south along the county road, running parallel with the Santa Fe road a distance of about 8,372 feet, in all a distance of about 33,464 feet to the proposed new filter-beds or sewage farm, the same being a tract of land containing about 200 acres, and fronting on Simm's Bayou.

On this farm it is proposed to dispose of the sewage by means of irrigation, the land to be thoroughly underdrained, in connection with a system of septic tanks, and intermittent filtration. At or near the southern city limits it is proposed to construct a pumping station where the sewage will be collected in a large underground tank and then pumped to the proposed sewage farm.

THIRD AND FOURTH WARD SANITARY SEWERS.

Twenty thousand dollars (\$20,000.00) has been set aside for sanitary sewers in the Fourth Ward out of the bond issue. Thirteen thousand dollars of this is to be expended on a lateral commencing on Baker Street near the Galveston, Harrisburg & San Antonio Railway. This lateral to run east on Baker Street where it will intersect Drew Avenue; thence east on Drew Avenue to Bagby Street; thence south on Bagby Street to Anita; thence east on Anita Street to Brazos Street; thence south on Brazos Street to Elgin;

thence east on Elgin Street to a connection with the sewer, leading to the Westmoreland sub-pumping station at Berry Street.

Bids have been opened for this work, and contract let to J. C. Kelso, who will commence work shortly.

The second lateral sewer will commence at San Felipe Street and Sherman Street; thence to run south on Sherman Street to Webster Avenue; thence east on Webster Avenue as far as the appropriation of \$7,000.00 set aside for this lateral will go. The proposed laterals in Fairview addition are indicated on the attached map. That portion of the Third Ward lying between La Branch Street and the Aransas Pass Railway, both north and south of McGowen Avenue, need sanitary sewers; also that territory lying between Chartres Street and the International & Great Northern Railroad and north of Lamar Street is also in need of sanitary sewers. All these sewers to be connected with the proposed main sewer system to be built in the Second Ward and discharging at the proposed new pumping station to be located just south of the southern city limits.

#### PROPOSED SEWERS IN THE THIRD WARD.

A large lateral on McGowen Avenue, commencing at La Branch Street and to run east on McGowen Avenue to a connection on Scott Street.

The following laterals are proposed:

On Crawford and Jackson, between Elgin and Pierce.

On Jackson, from Pierce to Elgin.

On Chenevert, Hamilton and Chartres, from Bell to Elgin.

On St. Emanuel and Hutchins, from McGowen to Bell Avenue.

Also a main lateral on Holman, from Fannin to Dowling, thence north on Dowling to McGowen Avenue. It is also proposed to construct a large lateral on Lamar Street, commencing at St. Emanuel, thence to run east on Lamar Street to a connection on York Street.

That triangular portion of the Third Ward lying east of Chartres Street, north of Lamar Street and west of the International & Great Northern Railroad, is also in need of sanitary sewers.

The proposed laterals will run north of Lamar Street to the International & Great Northern Railroad on the following streets, viz.: St. Emanuel, Hutchins, Broadway, Dowling, St. Charles, Live Oak, Rice, Paige and Shepherd.

There are also needed three short laterals on Caroline and Austin Streets, to run from Pierce to Hadley Street.

All of the proposed laterals and main sewers are indicated on the attached map.

#### THE FIFTH WARD.

The sum of \$85,000.00 has been set aside for sanitary sewers in this ward. The contract for this system has been let to J. C. Kelso and work is now under way.

The system now being put in consists of the large main sewers, into which all future laterals will discharge as they are being built, and the depth of the main pipes is such that the whole ward can be sewerized in the future. The system now being put in comprises the following lines:

Commencing at the pumping station on Willow Street, thence north on Willow Street to Wood Street; thence east on Wood to Sterrett Street; thence on Sterrett to William Street; thence north on William Street to Nance; thence east on Nance to Elysian Street; thence north on Elysian Street to Campbell Street.

The following main laterals are under construction, viz.:

Commencing at Elysian and Noble Streets; thence west on Noble to Paschall Street; thence west on Paschall to Everett; thence south on Everett Street to Pinckney Street.

Also a lateral commencing at Elysian and Lorraine; thence east on Lorraine to West Street, into laterals on West Street, north and south.

Also a main lateral on Providence Street and Odin Avenue, commencing at Elysian and Providence Streets; thence

east on Providence and Odin Avenue to a point near Lyons Avenue.

#### PROPOSED LATERALS.

A main sewer on Paschall Street, from Everett to Thomas, with laterals on Thomas, Fletcher and Keene Streets and Montgomery Avenue.

A main sewer on Harrington Street, from Montgomery Avenue to Elysian Street, with laterals on Freeman, Chestnut, Gentry, Common, Marion, Cochran, Gano, Chapman, Terry, McKee and Hardy Streets.

A main sewer on Harrington, from Elysian to West Street, with laterals north and south on Maury, Maffit, Semmes, Chase and Mary Streets.

Laterals on Conti, Providence and Liberty Streets, to connect at Walnut and Sterrett Streets.

Also laterals running north from Odin Avenue main sewer on Semmes, Mary, West and Carr Streets.

All of the above laterals are indicated on the map hereto attached.

*Memorandum.*—It is the intention, as the construction of the Fifth Ward sanitary sewer progresses, to connect all private lines now in operation with the new sewer, and disconnect all sanitary connections on the present Elysian Street sewer from the combined sewer now in operation.

#### THE SEWAGE PUMPING STATION ON WILLOW STREET.

This station collects at present all the sewage from the Third and Fourth Wards, and will have to handle all the sewage from the First, Sixth and Fifth Wards, whenever the systems in these respective wards are completed. It will be necessary to enlarge the receivng basin, and increase the rumping capacity.

If the sewage is to be handled with one pump it will require a 16-inch single stage turbine centrifugal pump, to be driven by a rope drive, with the necessary tension carriages, idlers, etc. The following items will be required:

One 14-inch by 28-inch by 36-inch tandem compound heavy duty Corliss engine, with grooved flywheel for ropes.

One jet condenser-exhaust relief valve, increasers and gates.

Also one additional water tube boiler of 195 horse power, with feed water heater and other accessories.

All of the above items contemplate the enlargement of the steam plant. The total cost for this installation will be \$24,000.00. I am now investigating the relative economy between a steam and an electric plant, and will report on this item when I have obtained the necessary data as to motors, transmission line, etc.

#### PROPOSED EXTENSION OF RECEIVING BASIN.

It will be necessary to increase the capacity of the receiving basin at the Willow Street pumping station by constructing an additional basin 75 feet long by 45 feet wide by 16 feet in depth, the floor to be the same level as the present floor of the pumping station. This basin to be entirely covered with concrete top cover reinforced by steel beams, so as to utilize the space above for other purposes. This basin will be made entirely of reinforced concrete, and to be waterproof. The cost of this additional receiving basin will be approximately \$21,750.00.

#### THE NEW SAN JACINTO STREET BRIDGE.

This proposed bridge will be the finest bridge south of St. Louis. It will be 70 feet wide over all, roadway to be 50 feet, with double track electric railway, and two ten-foot sidewalks.

Preparatory to the design of this bridge it was deemed advisable to take borings at the site of the piers and arch abutments on account of the anticipated presence of quicksand. Four borings were taken and revealed the presence of a six-foot vein of quicksand eleven feet below mean low tide level. This quicksand strata is overlaid by a layer of white sand rock five inches in thickness, and extends all

the way to the Gulf. Owing to the presence of this quicksand layer the cost of the piers will be considerably larger than originally anticipated, these piers being 44 feet by 98 feet in size.

The piles to be used in the pier foundations will have to go through the layer of quicksand, and will have to penetrate well into the layer of clay below the quicksand.

The bridge used will be of the Scherzer rolling lift type, and the clear channel between fender piling will be 100 feet, in accordance with the United States government regulations. The distance between bearings of the bridge will be 120 feet and the total length 177 feet. The movable part of the bridge will weigh approximately 1,200,000 pounds and consists of two leafs which raise up in the air when opened. The specified time of opening the bridge in contract will call for one and one-half minutes.

Two designs for this bridge will be submitted on March 1, 1910. The first design calls for a rolling lift bridge with solid arch on the north end of the lift, and concrete retaining walls on the south side. The second design contemplates the building of ribbed arches with slab construction and reinforced concrete side walks of the cantilever type.

The difference in cost between the two designs will be considerable, the second design having been made with a view to cheapen the first design, yet the cost of the second design is largely in excess of what was anticipated originally before the presence of quicksand was known; the increased cost being due to the depth of the foundations of the piers and the increased height.

The bridge will be on a level grade with Willow Street, and there will be a one per cent grade on the south end to meet the grade at the intersection of San Jacinto and Commerce Streets. The sidewalks and road way will be paved with vitrified brick and the lift bridge with creosoted blocks. It will be lighted by electric arc lamps. The bridge will be operated electrically.

#### WHARVES AND SLIPS AT TURNING BASIN.

The location of the municipal slips, wharves and warehouses now under construction is at a point about three miles east from the city on the north side of the ship channel, and is the lower portion of a 171-acre tract of land belonging to the City of Houston, out of the John Brown original survey.

The work being done is an undertaking of everlasting benefit to the citizens of Houston, and is a testimonial to the master mind who conceived it.

Early in June, 1909, the city commenced the clearing and grubbing of the slip and warehouse grounds, a tract containing about thirty-one acres. The next step in preparing the site for the location of slips was the removal of natural drainage channels and conducting the drainage along an artificial route to a point outside of the territory embraced by the slips. To do this a thirty-inch vitrified pipe line was built which now takes the surface drainage to a point below the slips.

The next item in order was the building of levees to receive the dredged material and deposit it within the area taken up by the levees.

On August 17, 1909, a contract was let to John Jacobsen for the dredging of the slips, and the contract stipulated that he should commence operations on December 1, 1909. This left the city ample time to excavate the grounds above the wharf level, but on account of scarcity of teams and high prices, this work was not commenced by Contractor J. C. Kelso until early in October, 1909.

The amount of excavation done prior to the commencement of dredging operations and up to December 1, including the construction of two levees, railroad and warehouses, excavation and slip excavation, is 67,311 cubic yards.

On December 7, 1909, the dredge Washington commenced operations in the east slip, and during the month of December excavated 60,000 cubic yards. The amount of excavation done during the month of January, 1910, was

93,000 cubic yards, or a total of 153,000 cubic yards up to February 1, 1910.

The dredge commenced operations in the west slip on February 21, 1910. In order to create a basin to receive excavation of the west slip, the county bridge on the Clinton road was raised about eight feet, so as not to obstruct the county road.

Both slips will be 150 feet wide and 500 feet long. The accompanying map, herewith submitted, shows location of slips and warehouses in relation to the surrounding territory.

I am now engaged in getting up revised plans for bulkheads, warehouses and inclined conveyors to be used in handling freight, also on plans for yards and terminals.

#### AMOUNT NECESSARY TO COMPLETE OUTLET FOR TERRITORY SOUTH OF SHIP CHANNEL.

Extension of sewer from Polk and Yorks Streets near north line of Luke Moore survey to pro-	
posed pumping station.....	\$ 28,500.00
Pumping Station grounds.....	2,000.00
Discharge main from Pumping Station to dis-	
posal fields .....	45,246.00
Pumping Station and equipment.....	12,500.00
200 acres of land for disposal fields.....	25,000.00
Underdrainage, tiling, carriers, etc.....	7,500.00    \$120,746.00

#### SANITARY SEWERS PROPOSED.

Proposed Lamar Street main sewer.....	\$ 25,000.00
Proposed McGowen Avenue main sewer.....	52,000.00
10 miles of lateral sewers in Third and Fourth Wards.	
8 miles of lateral sewers in First and Sixth Wards.	
15 miles of lateral sewers in Fifth Ward.	
4 miles of lateral sewers in Second Ward.	
37 miles of laterals, with manholes and flush-	
tanks .....	\$481,750.00    \$558,750.00

## PROPOSED STORM SEWERS.

Storm sewer in Fourth Ward, with laterals.....	\$175,000.00
Catch basins .....	13,500.00
	\$188,500.00

## WILLOW STREET SEWAGE PUMPING STATION.

New equipment to handle sewage when First,	
Fifth and Sixth Ward sewers are completed.	\$ 24,000.00
New underground receiving basin.....	21,750.00
Overhauling of filter beds near Turning Basin	45,750.00
and construction of Detritus tanks, etc.....	53,865.00
	<hr/>
	\$967,611.00

Respectfully submitted,

FRANK L. DORMANT,  
*Consulting Engineer.*



## PROPOSED STORM SEWERS.

Storm sewer in Fourth Ward, with laterals.....	\$175,000.00
Catch basins .....	13,500.00
	\$188,500.00

## WILLOW STREET SEWAGE PUMPING STATION.

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New underground receiving basin.....	21,750.00
Overhauling of filter beds near Turning Basin and construction of Detritus tanks, etc.....	53,865.00
	<hr/>
	\$967,611.00

Respectfully submitted,

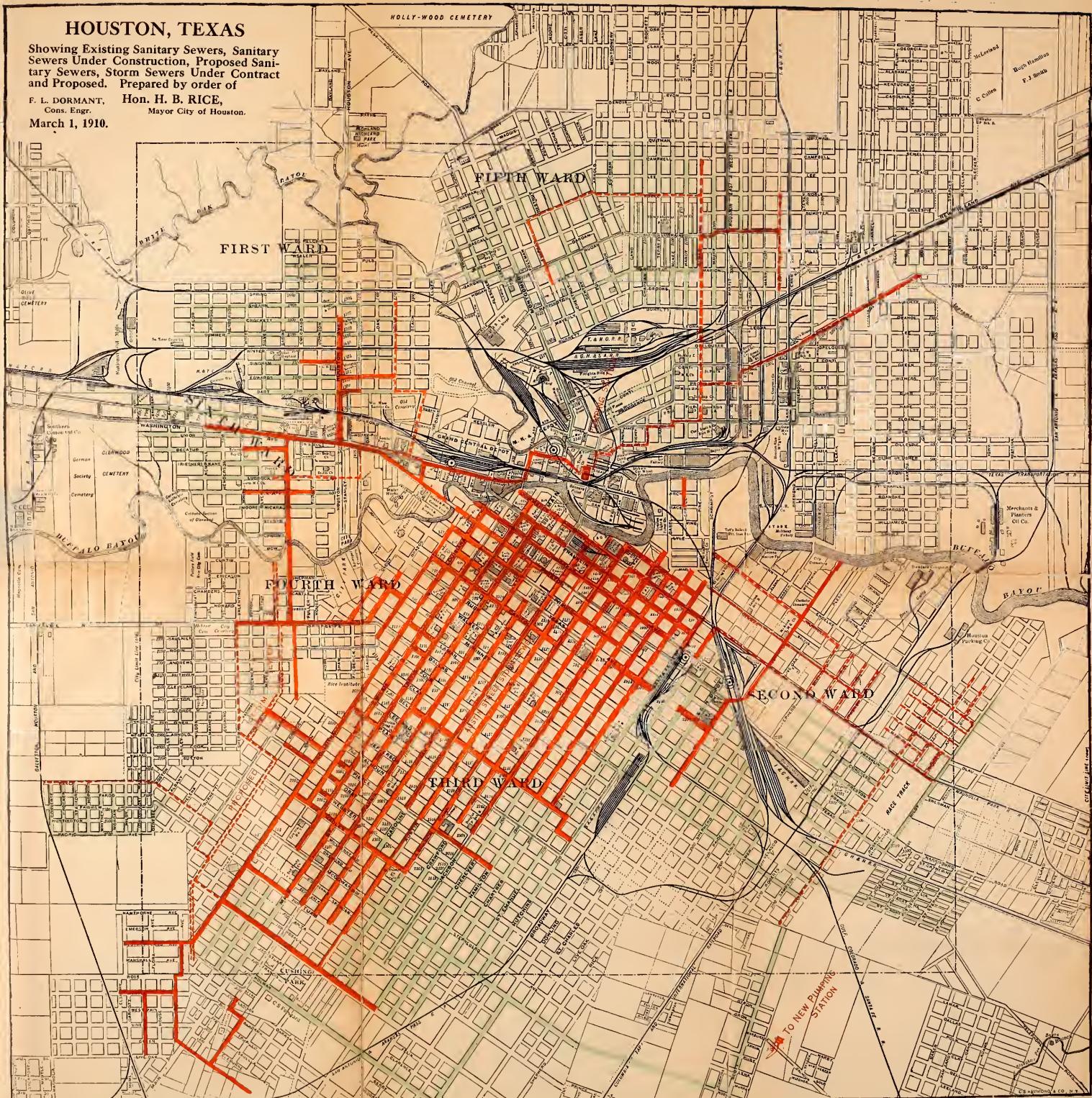
FRANK L. DORMANT,  
*Consulting Engineer.*

# HOUSTON, TEXAS

Showing Existing Sanitary Sewers, Sanitary  
Sewers Under Construction, Proposed Sanitary  
Sewers, Storm Sewers Under Contract  
and Proposed. Prepared by order of

F. L. DORMANT, Hon. H. B. RICE,  
Cons. Engr. Mayor City of Houston.

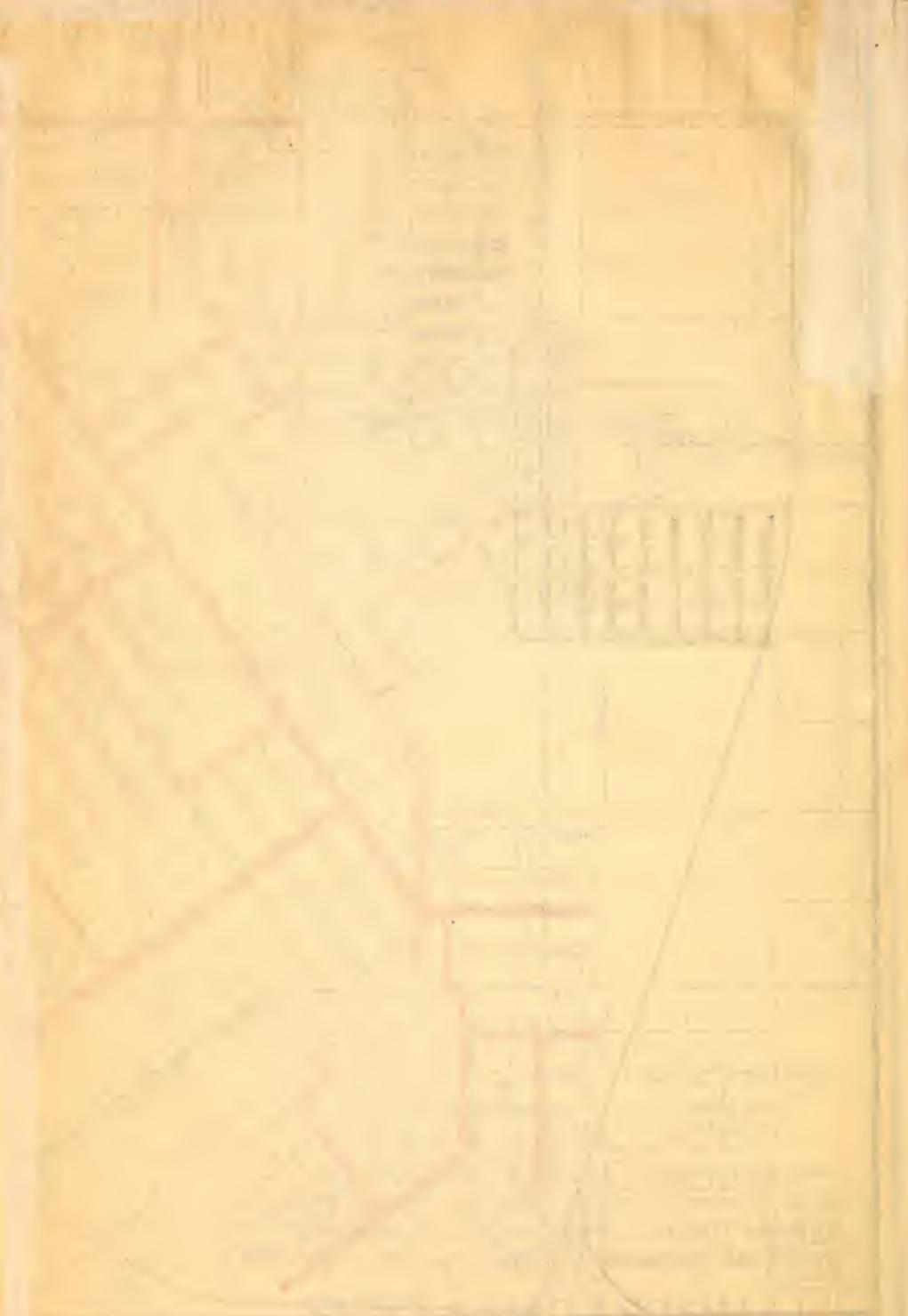
March 1, 1910.



Solid Red  
Dotted Red  
Solid Green

Existing Sanitary Sewers.  
Sewers under contract, and sewers to be built under recent bond issue.  
Proposed Sanitary Sewers.

Solid Black  
Dotted Black  
Storm Sewers under contract  
Storm Sewers Proposed.



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Call or write for free, descriptive brochures  
and complete information.

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Branch  
1000000000

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**ANNUAL REPORT**

OF

**WM. H. WILSON,**

*CITY ATTORNEY,*

*For the Year Ending February 28, 1910.*

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## REPORT OF CITY ATTORNEY.

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HOUSTON, TEXAS, March 5th, 1910.

TO THE HON. H. B. RICE,  
*Mayor of the City of Houston.*

DEAR SIR:—I herewith submit a statement of the conduct of the Legal Department of the City of Houston for the year ending the 28th day of February, 1910.

During the past year there has been a slight increase in the number of damage suits filed against the City of Houston, though such as were filed were not of any magnitude. There has not been recovered in the courts during this period any judgment against the City of Houston of any magnitude or importance.

There has been the usual large amount of business in the Legal Department in the way of preparation of ordinances, the drawing up of contracts and advice to the city in its various departments upon questions of law arising in the conduct of the city's affairs.

One of the most important matters to which the attention of the Legal Department was given was the carrying through of an adjustment between the city and the H. & T. C. Railway with reference to the water frontage on Buffalo Bayou, extending from where the railroad bridge crosses White Oak Bayou to the bend in Buffalo Bayou opposite the gas works, a distance of something like 1,500 feet. The railway had acquired some sort of claim to the property and had same in its possession and control. As a result of the negotiations the city granted to the railroad wharfage rights for a distance of something like 250 feet at the place where the wharf of the Direct Navigation Company is situated,

and the railway surrendered and deeded to the City of Houston the balance of the strip for purposes of a public wharf. By this settlement the city acquired for public use a strip of land for a public wharf on the north side of the Bayou, averaging in width from 50 to 150 feet and some 1,200 feet long. In the same settlement the city obtained a deed from the Central Railroad to a public street leading down to this wharf ground by an easy descent. This settlement furnishes to the public wharf grounds on the north side of the Bayou at the head of navigation corresponding to those on the south side; and this wharf ground on the north side has the additional advantage of being in immediate connection with a switch on the H. & T. C. Railway.

We believe that with the development of commerce on Buffalo Bayou, and the improvement of these wharves, they will become of great convenience and value to the people of Houston. A requirement of the deed from the railway to the city is, that this land shall not be diverted from the public use to which it is dedicated by the settlement. The H. & T. C. Railway Company and its officials, in making the settlement without the necessity of a resort to litigation, we considered acted with a very commendable sense of fairness and public spirit.

Another matter deserving attention is that the contract of Mr. John S. Stewart for the collection of back taxes had been almost entirely executed. The fact that suits were being instituted and prosecuted, both by the Legal Department and also by Mr. Stewart, caused inconvenience and difficulties to the tax payers. This brought about a settlement with Mr. Stewart, by which all tax suits and claims which he was enforcing under his contract were turned over to the Legal Department to be handled and prosecuted entirely by that department along with other suits for unpaid taxes.

The charter requires the City Attorney to be present in person or by deputy at the sessions of the Corporation

Court, which are held twice each day, viz: 9:00 a. m. and 5:00 p. m.

During the year beginning March 1st, 1909, and ending February 28th, 1910, there were assessed and collected in the Corporation Court fines and costs aggregating \$16,-924.40, all of which amount under the charter belongs to the city and goes into its general revenues.

During the past year the customary force of the department has been continued and maintained as heretofore, except that there has been added to the department Mr. T. L. Dunn, whose special business is to attend to the detail of the preparation and prosecution of suits for taxes.

Respectfully submitted,

Wm. H. WILSON,  
*City Attorney.*

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**ANNUAL REPORT**

OF

**F. J. OLLRE,**

*MARKET MASTER,*

*For the Year Ending February 28, 1910.*

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## REPORT OF MARKET MASTER.

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HOUSTON, TEXAS, March 4, 1910.

HON. H. B. RICE,  
*Mayor, City of Houston.*

DEAR SIR:—In compliance with the City Charter, requiring the head of each department to submit an annual report as to the condition of his department, I beg to enclose herewith a statement showing collections during the year ending February 28, 1910.

As this department has just received a thorough overhauling in the way of rewiring market for lighting purposes, repairing and screening all openings, I have no recommendations to make for betterments to the Market House at present.

COLLECTIONS MADE BY THIS DEPARTMENT FOR STALL RENTAL  
AND MARKET PRIVILEGES DURING THE YEAR ENDING  
FEBRUARY 28, 1910.

March,	1909.....	\$ 1,532.75
April,	1909.....	1,577.00
May,	1909.....	1,735.50
June,	1909.....	1,909.25
July	1909.....	1,803.25
August,	1909.....	1,558.50
September,	1909.....	1,521.25
October,	1909.....	1,576.75
November,	1909.....	1,624.00
December,	1909.....	1,592.00
January,	1910.....	1,605.50
February,	1910.....	1,540.25
		<hr/>
		\$19,576.00

Respectfully submitted,

F. J. OLLRE,  
*Market Master.*

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**ANNUAL REPORT**

OF

**DR. GEO. W. LARENDON,**  
*HEALTH OFFICER,*

*For the Year Ending February 28, 1910.*

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## REPORT OF HEALTH OFFICER.

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HOUSTON, TEXAS, March 1, 1910.

HON. H. B. RICE,  
*Mayor of the City of Houston.*

DEAR SIR:—I herewith submit my annual report for the year ending February 28, 1910, together with tables of "Classified Lists of Causes of Deaths for Twelve Months ending February 28, 1910."

You will note that the rate of mortality is as low as that of any city the size of Houston in the United States.

I call your attention, too, to the comparatively few cases of contagious diseases occurring during the year.

38 cases of smallpox, no deaths.

80 cases of diphtheria, eight deaths.

21 cases of scarlet fever, one death.

In every instance where contagious diseases have existed, including tuberculosis and typhoid fever, that have been reported to this department, we have very promptly fumigated.

During the last six months the pest house has been closed, but on the 26th day of February it was again opened, and we now have three cases therein.

Our sanitary inspectors have been active in their work of abating nuisances of all kinds, and during the summer months we have had extra men to enforce the meat-cutting ordinance.

Sanitary sewer connections have been enforced in every instance where the ordinances cover.

The addition of the pathological and chemical branch has been a great boon to the department. Our laboratory is

well equipped with the appliances necessary for the examination of milk and foods of all kinds, and also for bacteriological examinations.

The physicians of the city are availing themselves of the advantages of this department. We have placed the necessary outfits for cultures at drug stores in the city, where physicians can get them, without cost. In this manner physicians can get reports from this department within twenty-four hours as to the contagiousness of the disease under suspicion.

We have cared for deserving sick at the hospital and at our dispensary in the City Health Office.

The work of the department has been altogether very satisfactory for the year just ending.

Respectfully submitted,

G. W. LARENDON,  
*City Health Officer.*

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Summary of Births for Year Ending February 28, 1910.

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	White	Colored	Total
<b>1909</b>			
March.....	15	10	25
April.....	20	15	35
May.....	21	15	36
June.....	30	10	40
July.....	42	17	59
August.....	28	19	47
September.....	25	27	52
October.....	38	12	50
November.....	38	13	51
December.....	28	22	50
<b>1910</b>			
January.....	33	21	54
February.....	34	21	55
Totals.....	352	202	554

**Classified List of Causes of Deaths for Twelve Months Ending February 28, 1910.**

## Classified List of Causes of Deaths—Continued.

NAME OF DISEASE	Mar. 1909		Apr. 1909		May 1909		June 1909		July 1909		Aug. 1909		Sep. 1909		Oct. 1909		Nov. 1909		Dec. 1909		Jan. 1910		Feb. 1910		Total	
	1909	1909	1909	1909	1909	1909	1909	1909	1909	1909	1909	1909	1909	1909	1909	1909	1909	1909	1909	1909	1909	1909	1909	1909	1909	1909
29. Abdominal Tuberculosis.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	9
30. Pott's Disease.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
31. Cold Abscess.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
32. White Swelling.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	2	.....	6	.....	1	.....	1	.....	1	11
33. Tuberculosis of other organs.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	2	.....	6	.....	1	.....	1	.....	1	11
34. General Tuberculosis.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	2	.....	2	.....	2	.....	2	.....	2	11
35. Scrofula.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
36. Syphilis.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	11
37. Gonorrhœa, Adults.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
38. Gonococcal Affections of Infants.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	2	.....	2	.....	4	.....	4	.....	4	13
39. Cancer.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	2	.....	2	.....	4	.....	4	.....	4	10
40. Of the Stomach, Liver.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	2	.....	1	.....	1	.....	1	.....	1	10
41. Of Peritoneum, Intestines, rectum.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	3	.....	3	.....	3	4
42. Of Female Genital Organs.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	1	.....	1	.....	2	.....	2	.....	2	.....	2	.....	2	6
43. Of Breast.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	1	.....	1	.....	1	.....	3	.....	3	.....	3	.....	3	.....	3	6
44. Of Skin.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	2	.....	1	.....	1	.....	1	3
45. Of other organs and unspecified.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	2	.....	3	.....	3	.....	3	5
46. Other Tumors, except of female genital organs.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	2	.....	1	.....	1	.....	1	5
47. Acute Articular Rheumatism.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	1	.....	1	.....	1	5
48. Chronic Rheumatism and Gout.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	2	.....	2	.....	2	4
49. Scurvy.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	2	.....	2	.....	2	4
50. Diabetes.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....	3	.....	3	.....	1	.....	1	.....	1	7
51. Exophthalmic Goitre.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	1	.....	1	.....	1	2
52. Addison's Disease.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	1	.....	1	.....	2	.....	2	.....	2	.....	2	.....	2	5
53. Leukemia.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	1	.....	1	.....	1	.....	2	.....	2	.....	1	.....	1	.....	1	5
54. Anæmia, Chlorosis.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	1	.....	1	.....	2	.....	2	.....	1	.....	1	.....	1	5
55. Other general diseases.....	2	.....	2	.....	2	.....	2	.....	2	.....	2	.....	2	.....	2	.....	1	.....	1	.....	3	.....	3	.....	3	6
56. Alcoholism, Acute and Chronic.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	1	.....	1	.....	1	6

## Classified List of Causes of Deaths—Continued.

## Classified List of Causes of Deaths—Continued.

NAME OF DISEASE	Mar. 1909			Apr. 1909			May 1909			June 1909			July 1909			Aug. 1909			Sep. 1909			Oct. 1909			Nov. 1909			Dec. 1909			Jan. 1910			Feb. 1910			Total		
	77.	Pericarditis.	1	1	1	1	2	1	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2			
<b>III.—Diseases of the Circulatory System.</b>																																							
78. Acute Endocarditis.	4	3	2	1	2	1	1	2	1	7	4	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2					
79. Organic Heart Diseases.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
80. Angina Pectoris.																																							
81. Diseases of the Arteries (Atheroma, Aneurism, etc.).																																							
82. Embolism and Thrombosis.																																							
83. Diseases of the Veins (Varices, Hemorrhoids, Phlebitis, etc.).																																							
84. Diseases of the Lymphatics (Lymphangitis, etc.).																																							
85. Hemorrhage.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2					
86. Other Diseases of the Circulatory System.																																							
<b>IV.—Diseases of the Respiratory System.</b>																																							
87. Diseases of the Nasal Fossea.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
88. Diseases of the Larynx.																																							
89. Diseases of the Thyroid Body.																																							
90. Acute Bronchitis.																																							
91. Chronic Bronchitis.	4	12	7	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
92. Broncho-Pneumonia.	9	12	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
93. Pneumonia.																																							
94. Pleurisy.																																							
95. Congestion of Lungs, Pulmonary Apoplexy.																																							
96. Gangrene of the Lungs.																																							
97. Asthma.																																							

## Classified List of Causes of Deaths—Continued.

## Classified List of Causes of Deaths—Continued.

## Classified List of Causes of Deaths—Continued.

NAME OF DISEASE	Mar. 1909	Apr. 1909	May 1909	June 1909	July 1909	Aug. 1909	Sep. 1909	Oct. 1909	Nov. 1909	Dec. 1909	Jan. 1910	Feb. 1910	Total
139. Puerperal Albuminuria and Convulsions.	.....	.....	1	.....	1	.....	2	2	.....	.....	.....	.....	6
140. Puerperal Phlegmasia Alba Dolens.	.....	.....	.....	.....	1	.....	1	1	.....	.....	.....	.....	3
141. Other Puerperal Accidents, sudden deaths.	.....	.....	.....	.....	1	.....	1	1	.....	.....	.....	.....	1
142. Puerperal Diseases of the Breast.	.....	.....	.....	.....	1	.....	1	1	.....	.....	.....	.....	2
<b>VIII—Diseases of the Skin and Cellular Tissue.</b>													
143. Gangrene.	1	.....	1	1	2	.....	5	6	1	.....	.....	.....	16
144. Furuncle (Carbuncle).	.....	.....	.....	.....	1	.....	2	.....	2	.....	.....	.....	2
145. Phlegmon, Acute Abscess.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
146. Other Diseases of the Skin and Adnexa.	.....	.....	.....	.....	2	.....	2	.....	.....	.....	.....	.....	4
<b>IX—Diseases of the Locomotor System.</b>													
147. Diseases of the Bones, non-Tuberculous.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
148. Arthritis and other Diseases of the Joints, Tuberculosis and Rheumatism excepted.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
149. Amputation.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
150. Other diseases of the Organs of Locomotion.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>X—Malformations.</b>													
151. Congenital Malformations, Stillbirths not included.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	2	3

### Classified List of Causes of Deaths—Continued.

## Classified List of Causes of Deaths—Continued.

NAME OF DISEASES	Mar. 1909	Apr. 1909	May 1909	June 1909	July 1909	Aug. 1909	Sep. 1909	Oct. 1909	Nov. 1909	Dec. 1909	Jan. 1910	Feb. 1910	Total
174. Inanition (Starvation).....	3	4	2	2	1	1	1	1	1	3	....	....	48
175. Inhalation of Noxious Gas, not suicidal.....	1	1	3	3	1	1	1	1	3	1	2	1	1
176. Other Acute Poisoning, Accidental.....	1	1	3	3	1	1	1	1	12	12	1	1	12
177. Other External Violence.....	2	1	1	1	1	1	1	1	13	13	1	1	17
177bis. Homicidal.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	33
<b>XIV—Causes III-Defined.</b>													
178. Dropsy.....	1	1	1	1	3	2	1	1	8	8	....	....	24
179. Sudden Death, not Puerperal.....	1	1	3	1	1	1	1	5	64	66	10	2	26
180. Causes not specified or ill-defined.....	3	8	9	8	13	17	17	5	64	66	10	9	212
Total deaths for year.....	94	100	115	99	96	100	76	225	300	125	132	40	1502

Death rate average for the year 14.7; population, 102,000.

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ANNUAL REPORT

OF

JACK KENNEDY,

*CITY SCAVENGER.*

*For the Year Ending February 28, 1910.*

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## REPORT OF CITY SCAVENGER.

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HOUSTON, TEXAS, March 1, 1910.

HON. H. B. RICE,  
*Mayor City of Houston.*

DEAR SIR:—I herewith submit my annual report of the Scavenger Department, showing receipts and disbursements from March 1, 1909, to February 28, 1910.

GENERAL REVENUE.  
AMOUNT OF CLOSETS CLEANED.

March,	1909.....	\$ 1,499.00
April,	1909.....	1,419.75
May,	1909.....	1,794.50
June,	1909.....	1,422.25
July,	1909.....	1,374.25
August,	1909.....	1,242.00
September,	1909.....	1,081.50
October,	1909.....	1,254.25
November,	1909.....	1,374.50
December,	1909.....	1,309.75
January,	1910.....	1,783.50
February,	1910.....	1,498.00
Total .....		\$17,053.25

AMOUNT OF CASH COLLECTED.

March,	1909.....	\$ 1,478.75
April,	1909.....	1,392.75
May,	1909.....	1,761.75
June,	1909.....	1,376.00
July,	1909.....	1,336.00
August,	1909.....	1,203.75
September,	1909.....	1,073.00
October,	1909.....	1,233.50
November,	1909.....	1,347.50
December,	1909.....	1,259.00
January,	1910.....	1,735.25
February,	1910.....	1,443.00
Total .....		\$16,640.25

## AMOUNT OF CLOSETS CLEANED WITH NO COLLECTIONS.

Charity .....	\$198.50
Crittenton Home and Infants' Home.....	15.00
Public schools .....	137.00
Unpaid bills .....	45.00
City Water Works.....	6.25
City stables .....	6.75
McKee Street bridge.....	1.50
Wharf .....	3.00
Total .....	<hr/> \$413.00

## RECAPITULATION.

Cash collected .....	\$16,640.25
Bills outstanding .....	413.00
Total .....	<hr/> \$17,053.25
Expense .....	11,307.71
Net profit over operating expense.....	\$ 5,745.54
Amount of appropriation for 1909.....	\$13,000.00
Amount expended .....	<hr/> 11,307.71
Balance unexpended .....	\$ 1,692.29
Percentage of appropriation unexpended.....	13.02

## GENERAL EXPENSE.

Inspector's salary .....	\$ 4,000.04
Clerk .....	700.00
Laborers .....	4,873.03
Feed .....	956.04
Doctoring mules .....	10.00
Horse shoeing .....	44.60
Repairs on wagons.....	80.89
Repairs on tools.....	28.87
Repairs on harness.....	18.80
Repairs on barrels.....	237.50
Printing and stationery.....	92.70
Towels and soap.....	12.00
Stamps .....	23.24
Disinfectants .....	180.00
Telephone—office .....	50.00
Total .....	<hr/> \$11,307.71

NUMBER OF PLACES CLEANED AND INSPECTED DURING  
THE YEAR.

		Cleaned.	Condemned.
March,	1909.....	1,732	1,451
April,	1909.....	1,669	1,477
May,	1909.....	2,022	1,815
June,	1909.....	1,726	1,540
July,	1909.....	1,651	1,442
August,	1909.....	1,507	1,370
September,	1909.....	1,332	1,285
October,	1909.....	1,505	1,447
November,	1909.....	1,639	1,419
December,	1909.....	1,558	1,571
January,	1910.....	2,095	1,590
February,	1910.....	1,763	1,505
Total .....		20,199	17,912

INVENTORY OF LIVE STOCK, WAGONS, BARRELS, ETC.

Wagons .....	6
Mules .....	8
Disinfectant kegs .....	4
Gallons crude disinfectants.....	300
Sanitary barrels, new.....	33
Sanitary barrels, old.....	17

I wish to state that the live stock, wagons and other stock have become in such a bad condition that we now need, and will have to purchase, new wagons and harness and mules.

In conclusion I wish to state the earnings this year is \$1,053.32 over last year; notwithstanding the number of sewer connections put in the last year and the increase of expense of the addition of one inspector.

Respectfully submitted,

J. KENNEDY,  
*City Commissioner.*

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**ANNUAL REPORT**

OF

**R. G. ASHE,**

*SUPERINTENDENT GARBAGE,*

*For the Year Ending February 28, 1910.*

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## REPORT OF GARBAGE DEPARTMENT.

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HOUSTON, TEXAS, March 1, 1910.

HON. H. B. RICE,  
*Mayor City of Houston.*

DEAR SIR:—I herewith beg to submit my annual report of the Garbage Department, showing the expense of the department for the year from March 1, 1909, to February 28, 1910:

EXPENSE.

Superintendence, salary .....	\$ 2,010.00
Labor expense .....	15,416.90
Live stock, replacement and keep.....	2.50
Repairs and renewals of buildings.....	7.90
Repairs and renewals, equipments.....	26.02
Stationery .....	3.50
Telephone .....	20.00
 Total .....	\$17,486.82
Budget .....	16,000.00
 Amount overexpended.....	\$ 1,486.82
Percentage overexpended .....	.9.29%

Respectfully submitted,

R. G. ASHE,  
*Garbage Superintendent.*

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**ANNUAL REPORT**

OF

**GEORGE ELLIS,**

*CHIEF OF POLICE,*

*For the Year Ending February 28, 1910.*

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## REPORT OF CHIEF OF POLICE.

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HOUSTON, TEXAS, March 1, 1910.

TO THE HON. H. B. RICE,  
*Mayor of the City of Houston.*

DEAR SIR:—I respectfully submit a detailed report of work performed by the Police Department of the City of Houston for the fiscal year ending February 28, 1910.

In regard to the discipline of the force during the year, it has been very good, as few officers have been disciplined for violation of rules. To each and every member of the department I extend my thanks for the faithful manner in which they have discharged their duty.

I wish to call your attention to the fact that on account of the rapid growth of our city I found it necessary to put on twelve additional men since the last appropriation was made for the Police Department.

In conclusion permit me to tender my sincere thanks to the Mayor, the City Commissioners and Judge John A. Kirlicks of the Corporation Court, for the kind treatment shown the department during the year; and relying on your assistance and advice in the future as in the past, I am satisfied that the department will be conducted so as to make it second to none of its size in the country.

Respectfully submitted,  
GEORGE ELLIS,  
*Chief of Police.*

## ARRESTS MADE DURING THE YEAR ENDING FEBRUARY 28, 1910.

	WHITE		COLORED		TOTAL
	Male	Female	Male	Female	
March .....	239	12	95	40	386
April .....	229	12	131	33	405
May .....	228	15	124	31	398
June .....	208	18	118	31	375
July .....	222	9	124	24	379
August .....	288	4	164	34	490
September .....	265	26	136	34	461
October .....	310	18	172	75	575
November .....	287	5	93	22	407
December .....	270	7	141	21	439
January .....	289	6	92	14	401
February .....	254	10	89	23	376
Total .....	3,022	142	1,479	382	5,092

## VIOLATING STATE LAWS.

Assault, aggravated .....	27
Assault, simple .....	249
Assault to murder .....	78
Assault to rape .....	1
Arson .....	2
Arson, attempted .....	1
Allowing minor to play pool.....	3
Abusive language .....	67
Burglary .....	152
Cruelty to animals .....	4
Carrying a pistol.....	26
Carrying knucks .....	2
Carrying dirk .....	3
Contempt of court.....	1
Cattle theft .....	2
Drunk .....	1,167
Disturbing the public peace.....	497
Disorderly house, keeping.....	10
Embezzlement .....	2
Fighting .....	310
Forgery .....	17
Fugitive from justice.....	6
Fornication .....	2
Gaming .....	150
Horse theft .....	6
Lunacy .....	15

## VIOLATING STATE LAWS—Continued.

Leaving dead animal in public place.....	1
Liquor selling, without license.....	1
Murder .....	17
Malicious mischief .....	12
Passing forged instrument.....	1
Robbery, by firearms.....	6
Robbery .....	4
Rape .....	1
Seriously threatening life.....	2
Seduction .....	2
Swindling .....	5
Theft (felony) .....	84
Theft (misdemeanor) .....	120
Theft (from the person).....	22
Train jumping .....	95
Vagrancy .....	735
Violating Sunday law.....	12
 Total .....	 3,920

## VIOLATING CITY ORDINANCES.

Automobile speeding .....	104
Automobile (no lights) .....	25
Automobile (no number) .....	3
Accompanying lewd women on streets.....	3
Bicycles (no lights) .....	25
Bicycles (riding on sidewalk).....	32
Cursing over telephone.....	2
Causing a collision.....	9
Conversing with prisoners without permission.....	2
Driving over fire hose.....	10
Driving faster than six miles an hour.....	22
Driving fast over bridge.....	3
Driving through funeral .....	6
Discharging firearms in city limits.....	3
Excavating without a permit.....	8
Exposure of person.....	1
Failure to abate a nuisance.....	1
Hauling dirt from streets.....	1
Hitching on market awning.....	1
Impersonating an officer.....	1
Interfering with an officer in discharge of duty.....	3
Jumping street cars.....	3
Loitering in house of prostitution.....	25

## VIOLATING CITY ORDINANCES—Continued.

Leaving team unhitched.....	130
Leaving team hitched on Main St. over 30 minutes.....	32
Operating theatre without a license.....	2
Obstructing the streets.....	7
Obstructing the sidewalks.....	2
Overcharge in telephone.....	1
Overcharge in hack hire.....	1
Preaching without a permit.....	1
Peddling without a license.....	6
Refusing right of way to Fire Department.....	1
Registering as man and wife in rooming house.....	12
Racing on public streets.....	2
Spitting on sidewalk.....	2
Spitting in street car.....	2
Sleeping in public place.....	4
Selling unsound eggs.....	3
Selling beer (no license).....	2
Turning in false fire alarm.....	4
Turning on public water hydrant.....	1
Trespassing .....	29
Using horse without consent of owner.....	4
Violating sweeping ordinance .....	45
Violating Article 444, City Ordinance.....	15
Violating "Move On" Ordinance.....	3
Violating Depot Ordinance .....	2
Violating Street Car Ordinance.....	2
Violating Article 639, City Ordinance.....	1
Violating Slop Ordinance .....	4
Violating Article 695, City Ordinance.....	2
Violating Hack Ordinance .....	7
Violating Article 350, City Ordinance.....	3
Vicious dog running at large.....	1
Total .....	626

## RECAPITULATION.

Violating State Laws.....	3,920
Violating City Ordinances.....	626
Arrests on suspicion .....	544
Deserters .....	2
Total .....	5,092
Number of head of stock impounded.....	2,836

## ROSTER POLICE DEPARTMENT 1909.

Name	Rank	Date of Appointment
Anderson, Andy.....	Patrol Driver.....	January 2, 1889
Anderson, H. W.....	Patrolman (Mounted).....	February 20, 1900
Booth, H. D.....	Patrolman .....	September 10, 1904
Blackshear, J. T.....	Patrolman .....	November 5, 1908
Boone, J. L.....	Detective .....	October 1, 1907
Binford, T.....	Patrolman (Mounted).....	November 21, 1908
Berner, F. E.....	Turnkey .....	May 2, 1900
Brooks, William.....	Patrolman .....	May 15, 1908
Berner, E.....	Patrolman .....	December 1, 1906
Cain, A. J.....	Patrolman (Mounted).....	April 24, 1909
Cahill, M. F.....	Patrolman .....	November 13, 1891
Cooper, W. B.....	Patrolman .....	September 30, 1907
Connolly, F.....	Detective .....	September 9, 1909
Depenbrook, H. W.....	Patrolman .....	September 4, 1896
Ellis, George.....	Chief .....	April 7, 1902
Emery, Ed.....	Patrolman .....	February 17, 1898
Edwards, C. W.....	Patrolman .....	March 1, 1905
Farquhar, G. W.....	Patrolman .....	October 16, 1905
Fuller, N. B.....	Patrolman .....	May 1, 1898
Finn, Frank.....	Patrolman (Mounted).....	March 10, 1908
Felts, J. E.....	Patrolman .....	July 1, 1906
Fife, J. E.....	Patrolman (Mounted).....	August 17, 1908
Frederick, B. F.....	Clerk .....	December 15, 1905
Free, Joe.....	Patrolman .....	January 25, 1910
Gibbs, George W.....	Clerk .....	May 2, 1902
Grimstead, J. T.....	Clerk .....	December 11, 1892
Graham, H. T.....	Patrolman (Motorcycle) .....	August 18, 1909
Gehring, Fritz.....	Patrolman (Mounted).....	May 1, 1907
Hall, J. S.....	Patrolman .....	May 1, 1904
Hambrick, H. W.....	Patrolman .....	May 2, 1906
Hilton, G. H.....	Patrolman .....	July 7, 1909
Hodgson, William.....	Patrolman (H. & T. C.) .....	May 28, 1886
Hodgkins, C. P.....	Patrolman .....	August 10, 1909
Hill, J. F.....	Patrolman .....	July 22, 1909
Habermacher, S. M.....	Patrolman (Mounted).....	September 17, 1905
Griffith, I. C.....	Patrolman (H. & T. C.) .....	.....
Heck, C. W.....	Patrolman .....	December 28, 1906
Johnson, B.....	Patrolman .....	August 20, 1909
Jones, F. R.....	Patrol Driver.....	May 1, 1902
Jones, C. E.....	Detective .....	September 26, 1909
Jones, O. B.....	Clerk .....	February 6, 1908
Jones, Ned (col).....	Patrolman .....	June 4, 1894
Kessler, W. F.....	Chief Detective.....	April 19, 1896
Kennerly, J. E.....	Detective .....	November 9, 1906

Name	Rank	Date of Appointment
Krum, S. J.....	Roundsman .....	January 31, 1900
Kegans, W. H.....	Patrolman (Mounted)....	December 24, 1890
Little, R.....	Chauffeur .....	September 21, 1909
Lubbock, Thomas W.....	Patrolman (Mounted)....	April 17, 1906
Lockart, F. L.....	Patrolman (Mounted)....	April 27, 1908
*Murphy, William.....	Assistant Chief.....	May 1, 1902
Murphy, G. L.....	Patrolman .....	December 10, 1909
Moody, H. C.....	Patrolman (Mounted)....	April 20, 1908
Moore, H. H.....	Patrolman .....	August 5, 1909
Monroe, M. P.....	Patrolman .....	May 1, 1906
Millsap, A. J.....	Patrolman (Motorcycle)....	August 19, 1909
McCarty, J.....	Patrolman .....	November 15, 1909
McClanahan, J. T.....	Warrant Officer.....	July 19, 1898
McBurney, W.....	Patrolman .....	October 8, 1902
McNutt, J. B.....	Patrolman .....	May 28, 1908
Nichols, R. C.....	Patrolman .....	July 20, 1909
Nicholson, E. N.....	Patrolman (Mounted)....	August 13, 1905
O'Leary, P. S.....	Patrolman .....	April 23, 1909
Peyton, George.....	Detective .....	August 19, 1906
Perkins, W. H.....	Patrolman .....	May 4, 1908
Randle, V. S.....	Patrolman (Mounted)....	December 15, 1909
†Ray, J. M.....	Sergeant (First).....	August 6, 1891
Robinson, D. W.....	Patrolman (Motorcycle)....	May 22, 1909
Reagan, H.....	Patrolman .....	November 13, 1905
Shoemaker, H. D.....	Patrolman .....	October 1, 1909
Smith, J. M.....	Patrolman .....	April 12, 1908
Smith, R. R.....	Detective .....	October 1, 1905
Smith, W. H.....	Detective .....	February 20, 1900
Stockton, W. J.....	Patrolman .....	May 23, 1902
Settle, R. H.....	Patrolman .....	May 8, 1909
Stone, S. P.....	Patrolman .....	May 1, 1894
Simmons, C. J.....	Patrolman (Motorcycle)....	August 18, 1909
Scott, J. F.....	Patrolman .....	January 7, 1899
Schulz, W. F.....	Patrolman .....	August 2, 1909
Spaulding, J. S.....	Patrolman .....	June 24, 1908
Trimble, D. M.....	Patrolman .....	August 6, 1905
Toole, J. P.....	Patrolman .....	January 1, 1910
Tozier, Mrs. A.....	Police Matron.....	August 27, 1907
Urban, J. E.....	Patrolman .....	July 10, 1909
Varnell, J.....	Patrolman .....	July 10, 1909
Williams, W. C.....	Turnkey .....	November 1, 1904
Ward, R. L.....	Sergeant (Second)....	June 2, 1903
Wagner, H. J.....	Patrolman .....	May 22, 1909
Wagner, F. E.....	Patrolman .....	August 10, 1909
Worke, William.....	Patrolman .....	October 13, 1904
Whittington, B. W.....	Patrolman .....	August 7, 1899
Wilson, C. M.....	Patrolman (Mounted)....	June 21, 1906

\*Deceased.

†Now Assistant Chief.

TOTAL NUMBER OF RUNS MADE AND NUMBER OF MILES TRAVELED BY PATROL DURING YEAR.

	DAY		NIGHT	
	Runs	Miles	Runs	Miles
March .....	103	180	133	204
April .....	99	124	124	151
May .....	97	173	118	184
June .....	106	177	108	190
July .....	116	180	115	134
August .....	130	257	146	276
September .....	90	151	140	256
October .....	99	157	132	243
November .....	90	131	130	227
December .....	119	172	119	189
January .....	172	260	148	211
February .....	145	234	139	191
Total .....	1,346	2,196	1,552	2,456

FORCE OF THE POLICE DEPARTMENT.

1 Chief .....	\$ 2,400.00
1 Assistant Chief.....	1,500.00
2 Sergeants .....	2,460.00
1 Roundsman .....	1,080.00
4 Clerks .....	4,440.00
8 Detectives .....	8,340.00
1 Warrant Officer .....	1,080.00
2 Turnkeys .....	1,800.00
1 Matron .....	720.00
2 Patrol Drivers.....	1,800.00
14 Mounted Officers .....	15,120.00
4 Motor Cycle Officers.....	3,600.00
51 Patrolmen .....	45,900.00
1 Chauffeur .....	900.00
Total .....	\$91,140.00

COMPARATIVE STATEMENT.

	1905	1906	1907	1908	1909
Total arrests...	4,470	4,815	4,480	4,291	5,092
Stock im- pounded .....	2,437	2,767	2,461	2,529	2,836
Wagon calls....	2,308	2,482	2,772	2,441	2,898
Wagon mileage. ....	3,844	3,942	3,812	4,652	
Pound fees.....\$ 3,250.40	\$ 3,641.25	\$ 3,819.65	\$ 2,994.10	\$ 3,708.55	
Fines and costs 12,887.15	15,941.80	13,975.41	11,844.15	16,924.40	
Dog tax..... 524.00	808.00	545.00	582.00	284.00	
Special detail... 3,797.00	7,299.45	3,638.10	2,428.50	2,238.00	

## REVENUES POLICE DEPARTMENT.

	Fines and Cost.	Pound.	Dog Tax.	Special Detail.	Other.
March .....	\$ 1,042.10	\$ 348.50	.....	\$ 155.50	\$ 10.50
April .....	1,273.95	389.50	.....	160.50	13.00
May .....	1,517.55	429.65	.....	236.00	.....
June .....	1,375.60	189.75	204.00	285.50	.....
July .....	1,136.00	114.55	32.00	160.00	.....
August .....	2,062.50	146.00	10.00	212.50	.....
September .....	1,756.10	409.00	34.00	174.00	11.50
October .....	2,132.55	346.00	2.00	162.50	.....
November .....	1,377.45	408.05	2.00	182.50	3.00
December .....	1,304.70	277.50	.....	182.50	.....
January .....	1,136.95	324.00	.....	157.50	81.75
February .....	808.95	326.05	.....	160.00	.....
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	\$16,924.40	\$3,708.55	\$284.00	\$2,238.00	\$119.75

COST OF OPERATING THE POLICE DEPARTMENT FOR THE YEAR ENDING  
FEBRUARY 28, 1910.

Salaries .....	\$86,784.23
Patrol wagon and equipment.....	39.10
Live stock .....	415.06
Repairs to buildings.....	195.35
Repairs and renewals of equipment.....	3,457.28
Light and heat.....	374.03
Subsistence of prisoners.....	4,236.30
Stationery and printing.....	202.10
Other .....	2,619.92
Pound repairs .....	9.00
Pound, other .....	324.62
<hr/>	<hr/>
Total .....	\$98,656.99

COMPARATIVE STATEMENT OF REVENUES AND OPERATING EXPENSES OF THE  
POLICE DEPARTMENT.

Year.	Revenues.	Operating Expenses.
1901.....	\$ 9,891.90	\$62,274.97
1902.....	12,603.50	62,498.66
1903.....	13,407.15	58,604.97
1904.....	16,414.85	64,506.55
1905.....	20,458.55	69,446.52
1906.....	28,094.75	71,857.90
1907.....	21,676.41	72,782.67
1908.....	17,926.15	86,354.46
1909.....	23,274.70	98,656.99

## REPORT OF DETECTIVE DEPARTMENT FOR THE YEAR ENDING FEBRUARY 28, 1910.

Abusive language .....	6
Aggravated assault .....	5
Assault .....	16
Assault to murder.....	14
Assault to rape.....	1
Attempted arson .....	1
Burglary .....	73
Carrying brass knuckles.....	1
Carrying a dirk.....	1
Carrying a pistol.....	3
Carrying concealed weapons.....	1
Causing a collision.....	1
Discharging firearms in city limits.....	1
Disposing of mortgaged property.....	1
Disturbing the peace.....	30
Drunk .....	40
Fighting .....	4
Forgery .....	13
Fornication.....	2
Fugitive .....	1
Gaming .....	28
Horse theft .....	4
Keeping a disorderly house.....	4
Loitering .....	6
Lunacy .....	1
Murder .....	5
Peddling without a license.....	3
Permitting minor to enter and play pool.....	5
Registering as man and wife.....	8
Robbery .....	5
Robbery (by firearms).....	2
Seduction .....	1
Suspicion .....	186
Swindling .....	5
Taking team without consent.....	2
Theft (felony) .....	50
Theft (from the person).....	14
Theft (misdemeanor).....	51
Trespassing .....	3
Unlawfully riding train.....	2
Vagrancy .....	281
Violating speed ordinance.....	3
Violating Sunday law.....	7
<hr/>	
Total .....	891

## PROPERTY STOLEN AND LOST, RECOVERED AND UNRECOVERED.

Stolen property recovered.....	\$33,274.44
Stolen property unrecovered.....	<u>18,607.96</u>
Total stolen property.....	\$51,882.40
Lost property recovered.....	\$ 3,556.56
Lost property unrecovered.....	<u>2,995.05</u>
Total lost property.....	\$ 6,551.61

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**ANNUAL REPORT**

OF

**CLARENCE R. GEORGE,**

*CITY ELECTRICIAN,*

*For the Year Ending February 28, 1910.*

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## REPORT OF CITY ELECTRICIAN.

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HOUSTON, TEXAS, February 28th, 1910.

HON. H. B. RICE,

*Mayor of the City of Houston.*

DEAR SIR:—I have the honor of submitting herewith this my annual report of the Electrical Department for the year ending February 28, 1910.

This report contains a full statement of all matters pertaining to this department, such as expenses and receipts, repairs and renewals to the fire alarm system, installation of new fire alarm signal boxes, installation of the underground cable system for the fire alarm wires now under course of installation.

I am pleased to report to you that we have received very nearly all or about 80 per cent of the material for the underground system. The cable, which is the greater part of the expense, has arrived and stored ready for use. I have deferred pulling this cable in owing to the uncertainty of the weather, as I deem it wise to install cable during a temperature more suitable to the lead casing of this class of cable. However, I am progressing very fast with the work, and expect to have the system completed within the next few months.

The lightning arrester and protector board has also been received and the ten new keyless door fire alarm signal boxes for the business district are on hand and will be installed along with the cable.

The new additional twelve circuit storage battery switch-board for the alarm (gong) circuits and police circuits has

been ordered and is now in course of construction, and I expect shipment of this board within the next thirty days.

The pedestals for mounting the alarm boxes in the business section of the city have been received, and are now being prepared for installation. I have not as yet ordered the upper cases for the pedestals, but as per your instructions I have designed an upper case that will support an indicating lamp in red, with street sign attached.

This arrangement will not only show at night the location of each fire alarm box by the red light, but will have an indicating street sign on each four sides of the lamp hood. This same system of upper case and lamp can be adopted with the pedestals for the police signal boxes by the use of the blue instead of red, that is, red for the fire alarm boxes and blue for the police boxes, while at the same time the blue light can be used for code signals for calling the officers on their respective beats.

#### UNDERGROUND CABLE.

As per your instructions, I have taken pains to carry out every detail in the design and construction of the cables so that they can be used jointly for both fire alarm and police circuits.

This cable is constructed of No. 14 G. & S. gauge 98 per cent pure copper tinned, insulated with the best grade of rubber and encased in lead sheath, the whole being manufactured and furnished by The Safety Insulated Wire and Cable Company of New York, and was made under very rigid specifications furnished by this department.

In making my plans, designs and specifications for this cable, I wish to state that I have consulted some of the best authorities throughout the different cities on fire and police alarm underground cable installation. I have not only consulted these gentlemen in person, but have looked into and inspected systems in other cities while in attendance at the Municipal Electricians' conventions. My attendance at these conventions has not only been of vast benefit to me in this particular instance, but in many other ways in the discharge

of my duty from a business and electrical standpoint in the management of the Electrical Department.

The method of installation and distribution for our fire alarm and police system of underground cables in the business section of the city, now being installed, will be, when completed, what may be termed a unit system of cable distribution. This method of installing cables is new and affords many advantages over the old method known as the Y system of cable splicing or distribution generally in use.

The advantage gained by this method is that there will be no splicing of the cables underground in man-holes, each section of cable connecting to its corresponding section in the base of each fire or police pedestal, through terminal blocks of slate, on which is mounted bolt connectors suitable to the size of each cable. This method of terminal block connection provides a more suitable system of testing each and every section of cable without interfering with the working service of the lines.

If at any time it becomes necessary to remove any part or section of the cable, it is only necessary to lift the pedestal by unscrewing it from the base at each end of the cable to be removed, at the same time running temporary wires to replace the cable being removed. The cable can then be taken out of the duct for repairs, or to replace the new piece without interrupting the service.

In the installation of this system I have taken advantage of the errors and experience of other cities, and have profited thereby in the formation of my plans. This, however, has taken time, and plan after plan has been worked over until I have succeeded in working out the system above mentioned. From the very beginning of this installation I appreciated the fact that it was my duty to install a system as near perfect as could be installed, and from the opinion and approval of some of the best authorities in this line of work I believe that I have succeeded, and that this city will have an underground fire and police cable system second to none.

## FIRE ALARM SYSTEM.

With all fire alarm wires in the business section of the city underground and the signal boxes mounted on iron pedestals, with red lamp and street sign over each box; and with the police signal boxes mounted in the same manner, but with the blue lamp and street sign, we will have removed all danger from interference to the city's overhead wires. This improvement will furnish to the public a most reliable and uninterrupted fire alarm service.

The fire alarm service should be so maintained, that it can be perfectly reliable at all times regardless of the condition of the weather or other electrical appliances, as it is the one thing that governs the movement of the fire department in directing it to the locality of fires. Its perfect working is depended upon by the fire department, the public expects it to properly call the department without error in time of fire; therefore, the service should be maintained with perfect efficiency and uninterrupted working order every moment of the three hundred and sixty-five days of each year.

To accomplish this necessary service requires that all apparatus and material for the installation and maintenance of the system must be of the best obtainable, and this has been the effort of the department in the past, and especially so in the design and purchase of apparatus and material for the new installation.

I have designed the new installation in the business section of the city so that the fire alarm box distribution will meet the growing demands of the city. There will be boxes placed so that they will be at regular intervals and the same distance apart alternately by streets each way, or about six hundred feet from box to box.

So that you will better understand this arrangement, we will say that someone standing at the corner of Main and Congress discovers a fire: now in order to sound the alarm he will only have to go one block from this corner in either direction to find a box.

This arrangement as designed will require about six more signal boxes to perfect it in the fire limits, the business district having been provided for.

Owing to the rapid growth of the city, this department has been unable to keep up with the demand for additional fire alarm protection in the way of installing new signal boxes where badly needed, and I would suggest that this matter of new signal boxes be taken up for the coming year.

#### GONG CIRCUITS.

It is my intention during the coming year to re-arrange the present system of receiving alarms in the engine-houses by the installation of direct gong lines to each engine-house. These lines and gongs will be so arranged that only the fire company responding to the first alarm will receive the call, followed by notice to all other houses that there is an alarm in and that certain companies are out.

This arrangement will be so arranged that it will be in use only at night, and will be of great benefit to the department—inasmuch as it only calls those companies wanted.

#### ALARM TRANSMITTER.

Our present method of handling alarms, especially those alarms received by telephone, is very inadequate. The transmitter now located on the ground floor of the central station is being attended to by anyone of the firemen that may chance to answer the phone, and this necessitates him retransmitting the alarm by the use of the transmitter, or more likely delaying the alarm until he can call some one of the other firemen who are more familiar with the locality of the fire and the box number nearest thereto. This method is very crude and errors are made, and sometimes the department sent in the wrong direction. This, however, is due to the fact that we have no regular operator for this particular duty, and as the result anyone that answers the phone attempts to sound the alarm over the transmitter.

When the phone rings, everyone near it naturally thinks there is a call for a fire, and if so, there are several suggestions as to what number box to sound over the alarm system; this generally causes confusion and as a result there is sometimes an error made—with no one responsible for it.

In the rearrangement of the office to care for the additional apparatus, I am providing circuits so that this transmitter can be removed to the new office and all alarms handled by an operator. This will not only assure of no errors being made, but will furnish better and more efficient service in handling alarms and be the means by which many runs now being made for small roof and flue fires can be saved. This will also enable the department heads to know who is responsible for errors if any are made.

#### PROPOSED METHOD OF HANDLING ALARMS.

When an alarm is sounded from a street box it will come direct to the office and registers on a paper tape by cutting the number of the box in the paper. At the instant that this alarm comes in, the operator takes the first round (number) of the box and sets this number up on the transmitter and sends it out to the fire stations that make this box on the first call; this alarm goes out on the alarm (gong) circuits to the stations that respond to the first call, and to all other stations on the register or indicator, which notifies all stations that there is an alarm in, also the number of the box, so that in case of a second or general alarm they will know where to go.

I will also provide means by which the operator will be able to keep account of the movement of each piece of apparatus, that will enable him to direct whatever company desired in any direction, and to fires that may occur at the time that any of the other apparatus are out.

#### ELECTRIC LIGHT UNDERGROUND SYSTEM.

The work of installing the electric light conduit system underground, by the Houston Lighting and Power Company, now in progress of installation, is being placed very rapidly and is most complete in its method of distribution.

When this system is completed and the lighting company removes its overhead wires, which it expects to do within the next six months, to the underground system, there will only remain the wires and poles of the Western Union Telegraph Company and Citizens Telephone Company, with a few scattered poles of the Southwestern Telephone and Telegraph Company.

Following your instructions regarding the street lighting system, I have taken this matter up with the lighting company and arranged with it to provide underground outlets from its system at each of the four corners and at poles between the block.

This will eliminate the old and unsightly wood pole now in use and be replaced by an ornamental iron pole of sufficient size and height for the arc lamps and support of the trolley span wires. The system of lighting the business section of the city will be a great improvement over the present method.

I have also arranged with the lighting company to provide outlets from its underground system for the lights to be placed on our fire and police signal boxes, this system of lights to be controlled from the central fire alarm office by automatic devices.

#### CITIZENS TELEPHONE COMPANY'S POLES AND WIRES.

During the past year this department has found the poles and wires of the Citizens Telephone Company to be in such state of deterioration and dangerous condition that, to avoid damage and accident, it became necessary for this department to remove a considerable number of its poles and wires.

#### IMPROVEMENT TO FIRE ALARM SYSTEM.

The following new fire alarm signal boxes have been added to the system:

- Box 419—Louisiana and Webster.
- Box 436—Louisiana and McGowen.
- Box 361—Fannin and Prairie.
- Box 423—Preston and Smith.
- Box 39—Preston and Caroline.

Rebuilt lines by running new wire and overhauling same on Washington Avenue from Fifth to Tenth, on Tenth from Washington to Dart, on Dart from Tenth to Holly, on Holly from Dart to Spring, on Spring from Holly to Houston Avenue.

On Jackson from Congress to Franklin, on Franklin to Broadway, on International & Great Northern Place from Franklin to Runnels.

On Chartres, two wires from Franklin to Commerce, on Commerce from Chartres to Hamilton, on Hamilton from Commerce to Lyle.

On Houston Avenue, two wires from Spring to Alamo, on Alamo from Houston Avenue to Colorado.

On Montgomery from Burnett to No. 9 Fire Station.

This necessitated the removal of the old wire and resetting all boxes on this new line.

#### SOUTHERN PACIFIC FIRE ALARM STATION.

I have installed for the Southern Pacific Company, in its shop yards, a fire station-auxiliary fire alarm system with four auxiliaries, and one street box with gong and indicator. This system is so arranged that they can call out their local fire department without calling upon the city department. It is also arranged so that they can call the city department without calling their department, or they can call both departments at the same time by the use of the auxiliary system, the working of which actuates the street box sending the alarm direct to the city department. The installation of this system was at the expense of the Southern Pacific Company and has no direct electrical connection with our fire alarm system, but is worked through a mechanical device so that in case of trouble with its wires there will be no interruption to our system.

#### ELECTRICAL INSTALLATION AND WORK FOR OTHER DEPARTMENTS.

For the city park I have wired for and installed a search-light and taken care of the regular lighting system.

For the city stables I have installed an additional number of lights; all wiring was placed in conduit.

I have rewired and added additional lights at the water works pumping station, the entire installation being placed in conduit with the most approved fittings.

*City Market:* I have rewired the entire first floor of the city hall (market) by removing the old open wiring system and placing the new system in conduit. This wiring system is so arranged that each tenant can be provided with separate meters and each paying for his or their own service.

Installed two fans and lights in the office of Engineer Dormant.

One fan and lights in the office of Commissioner Jones.

Installed additional lights in the office of the Milk Inspector.

Overhauled all fans in the City Hall.

Placed a conduit system of wiring in the South End Pumping Station.

Decorated City Hall and Central Fire Station for the annual Carnival.

Maintained the electric lighting in all of the fire stations and city buildings and made all necessary repairs thereto.

#### ELECTRICAL INSPECTION.

Number of permits for electric wiring.....	1,497
Number of permits for electric service.....	1,349
Number of certificates for electrical installations.....	14
Number of permits to set poles.....	72
Number of poles inspected .....	901
Revenue from inspection and others.....	\$5,116.27

This branch of the department has had its usual attention, but owing to the growth of the city it is necessary that I add another inspector to the department, as the present work is more than one inspector can handle and make the proper inspections, owing to the time required for this class of inspections.

#### APPROXIMATE VALUATION OF THE FIRE ALARM SYSTEM.

The following figures show an approximate valuation of the fire alarm system:

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All engine house equipment (electrical).....	\$ 3,955.25
Outside construction, signal boxes, wires, poles and other fixtures .....	33,150.44
Central office equipment and furniture.....	11,195.84
Horses and buggy and automobile.....	1,628.00
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Total.....	\$49,929.53

The above figures do not include the number of private fire alarm boxes attached to the system.

The total number of fire alarm signal boxes is: City 115, and private 15, making a total of 130—an increase over the previous year of 15 boxes. Two of these boxes were installed in the business section of the city, three in the residence section, one private in the Southern Pacific shops. The ten now on hand are being installed in the business section and are included in the valuation of the plant.

#### EXPENSES OF THE DEPARTMENT.

The following figures will show the expense of the department—with improvements, betterments, additions and extension of the system in the item of extraordinary:

Salary Superintendent .....	\$ 1,800.00
Salary Inspectors .....	1,357.50
Repairs and renewals to fire alarm, including salary of lineman .....	2,399.27
Other expense .....	860.08
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Total, ordinary .....	\$ 6,416.85
Extraordinary .....	15,494.43
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Grand total .....	\$21,911.28

#### RECOMMENDATIONS.

For the budget allowance I wish to ask for an appropriation of about \$6,000.00 for the year 1910. I find that it will be necessary for the department to rebuild some of our old outside lines by replacing quite a lot of the old iron wires.

In consideration of the great improvement and installation of our system of fire and police cables underground, mounting all signal boxes on steel posts, installing new and addi-

tional boxes in the business section, increasing the capacity of the plant and improving our method of handling alarms, of which the above were recommended in my last annual report, and I am pleased to report that within the next few weeks all these improvements will be completed.

However, I wish to recommend that we purchase and install as many new signal boxes as the department can be allowed, during the coming year, especially in the residential sections of the city.

#### CONCLUSION.

In concluding this report I wish to thank you for the assistance you have rendered me in the discharge of my duty, and the means by which you have enabled me to make our electrical equipment equal to any city. As head of this department, I have endeavored to carry out your instructions as to our recent improvements, and I believe that I have succeeded.

I also wish to thank the Commissioners for their assistance during the past year; also Chief Ollre, of the Fire Department, who has been ready at any time to assist this department.

Through this report I wish to extend my thanks to the employes of this department, who have shown a disposition to do whatever they have been called upon to do to make the department successful.

Very respectfully submitted,

CLARENCE R. GEORGE,  
*City Electrician.*

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ANNUAL REPORT  
OF  
HOUSTON LYCEUM AND  
CARNEGIE LIBRARY

*For the Year Ending February 28, 1910.*

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## REPORT OF HOUSTON LYCEUM AND CARNEGIE LIBRARY.

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HOUSTON, TEXAS, March 1, 1910.

TO THE HONORABLE H. B. RICE,  
*Mayor of the City of Houston.*

DEAR SIR:—The past year has been one of satisfactory progress for the Library. Each year establishes this institution more firmly as one of Houston's most valuable educational institutions, second in importance only to the public schools.

The Library's fiscal and statistical year ends the first of May, but a statement of work accomplished so far is given herewith.

During the past ten months there have been 3,136 applications for the privilege of taking books from the library, making a total of 9,602 active members in the library. This means that practically one person out of every ten in Houston holds a library card. 2,731 books have been added so far, 1,992 by purchase from city funds, 476 by purchase from the Meldrum fund, and 263 by gift. The total number of volumes now in the library is 28,948 volumes. The number of volumes loaned up to the first of March was 76,025. The year's records will probably show a good increase in use over last year. There has also been an increase in the percentage of books of non-fiction loaned. The library's effort is to improve the kind of reading done as well as to increase the number of volumes used. The non-fiction percentage so far has been 24 per cent of the whole. In addition to the books loaned from the main library, books have been sent to several schools far away from the library, and to the Settlement House, so that those children for whom it is inconvenient to come to the library may have the benefit of library books.

The growth of the library made it necessary to have new shelving to relieve the congested condition, and in December this was installed, adding very much to the appearance of the library. The cost of the shelving was \$550.00. The reading room was moved upstairs to give more room on the first floor for open shelves.

In response to the demand of a number of colored citizens, a branch for negroes was opened on the fifth of May. An appropriation of \$500.00 was added by the city to the library's regular appropriation for the colored branch, and this has been expended for books and for salary of the librarian. The branch was opened in the colored high school with 534 volumes. The library so far has had good use and seems to fill a need. There have been circulated since the fifth of May 3,738 volumes. The library is open from 3:00 to 9:00 p. m. daily.

The report of the treasurer, Mr. E. L. Dennis, for the year ending May 1st, 1909, is herewith appended:

RECEIPTS.

May 1st, 1908.	Bal. in hands of Treasurer.....	\$ 4.61
	Bal. in hands of Librarian.....	57.65
May 1st, 1909.	City of Houston, appropriation.....	7,245.00
	Dues from clubs, rentals, etc.....	83.00
	Fines, lost books, sundries paid to librarian .....	797.69
		_____ \$8,187.95

EXPENDITURES.

Salaries .....	\$4,186.50
Colored branch .....	46.20
Insurance (three years).....	490.00
Books, periodicals, binding.....	1,657.21
Building repairs .....	203.85
Coal, lights, phone.....	464.69
Supplies, stationery, miscellaneous.....	531.71
Balance in hands of Treasurer.....	585.06
Balance in hands of Librarian.....	22.73
	_____ \$8,187.95

Very respectfully,

JULIA IDESON,  
*Librarian.*



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ANNUAL REPORT

OF

PAT DOUGHERTY,  
*PURCHASING AGENT,*

*For the Year Ending February 28, 1910.*

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## REPORT OF PURCHASING AGENT.

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HOUSTON, TEXAS, March 1, 1910.

TO THE HONORABLE H. B. RICE,  
*Mayor City of Houston.*

DEAR SIR:—This department being an adjunct to your office, inasmuch as the City Charter vests the purchasing power in the Mayor, the duties for the most part are clerical, the head of the department being under your direction and supervision.

When the Purchasing Department was inaugurated as a new division of the municipal government on August 1, 1909, its head began immediately formulating a system for carrying out your instructions, viz:

To adopt the competitive bid system in the purchase of supplies for the various departments.

To keep in touch with the markets and secure reliable information as to probable fluctuations, and by so doing be able to anticipate increases by laying in stocks of supplies when possible.

To keep in touch with the Mayor and before issuing an order for purchases when requisitions issue from the various departments to confer with the Mayor.

To inspect all bills against the city and to "O. K." bills only when accompanied by the official order signed by the Mayor and City Secretary, the city being responsible only for bills officially authorized.

When bills are presented to see to it that the prices conform to the bids.

When deliveries are made to see that the qualities and weights are correct.

In a nutshell, the concentration of all the purchases for all the departments under one head and the installation of a system of records for the intelligent conduct of the department.

#### COMPETITIVE SYSTEM.

As a result of the adoption of the competitive system the City of Houston is purchasing the bulk of supplies for the various departments at "dealers' prices." In other words, jobbers and manufacturers grant the same prices and discounts to the City of Houston that they grant to dealers. The city's volume of business is worth striving for, and jobbers, manufacturers and dealers generally make price concessions to capture this business the same as they do in cases of all large corporations which do a great volume of business.

#### BRIDGE LUMBER.

The wisdom of keeping in touch with the markets and securing reliable information as to probable price fluctuations is emphasized by the results obtained in the purchase of lumber for the city's bridges and culverts, by the following comparisons:

From May to August, 1909, the price range on pine lumber, 3x8x20, rough heart, was \$16.50 to \$26.00, as shown by the records in the Controller's office. The average price was about \$21.

During the seven months from August 1, 1909, to February 28, 1910, the city purchased approximately 200,000 feet of this lumber. The price ranged from \$16 to \$22.50. The latter figure was paid only in cases of emergency when it was necessary to secure lumber from yards after it had been placed in retail stocks. The bulk of this lumber was purchased at \$17.50 per 1000 by the carlot. The average price paid was about \$18.

While it would, perhaps, be impossible to make an accurate comparison of one period over another for the reason that the lumber market is subject to continuous fluctuation,

the above comparison is, it is believed, conservative. If it is, the city saved approximately \$600 on bridge lumber during the seven months.

#### FEED PURCHASES.

In placing reliance upon advice of experts as to the feed markets, this department about the middle of September purchased for the Street and Bridge Department two cars of oats, the best oats on the market at the time, for  $52\frac{1}{2}$  cents per bushel. The prices fluctuated almost immediately between 55 and 63 cents. Again, on November 30, the oat market having dropped to a low ebb, two more cars of best quality cleaned and clipped oats were purchased for  $52\frac{1}{2}$  cents per bushel. Shortly after this supply was laid in the market went up and ranged from 56 to 65. This last supply fed the department until about the middle of February, the four cars feeding the department for six months. There were in the four cars 5,000 bushels, the total expenditure being \$2,625.00.

At a conservative estimate there was a saving of 8 cents per bushel on oats for this department during the six months, or an approximate total saving of \$400.

In September a car of slightly bleached alfalfa hay was purchased for \$13 per ton when the market was \$19. While bleached hay is not salable to the family trade it is considered as good as the green by feeders. The car contained twelve tons, netting a saving of \$72. This was for the Street and Bridge Department.

In October a car of slightly bleached alfalfa hay was purchased for \$18.50 when this hay was selling for \$22.50. The car contained fourteen tons, thus netting a saving of approximately \$56. Also for the Street and Bridge Department.

Early in November two cars of green alfalfa hay were purchased for the Street and Bridge Department at \$22.25 per ton when the prevailing price was \$23, later going to \$24. These two cars contained twenty-eight tons, and the

saving was approximately \$1.00 per ton. This supply fed the Street and Bridge Department until about the middle of February, making a total approximate saving on hay for this department during the six months of \$156.

#### THE STOCK DEPARTMENT.

Owing to the fact that there is not store-room at the fire stations for housing feed supplies for longer than two weeks, nor at the Police Department, barns at the water plant were converted into "storage for stock account" for the Fire, Police and Water Departments.

In September two cars of oats were purchased for "stock account" at  $52\frac{1}{2}$  cents per bushel. There were in the lot 2,500 bushels, the total expenditure being \$1,312.50. Due to fluctuations during the time this supply fed the above departments, there was a saving of approximately 8 cents per bushel, or an approximate total saving of \$200.

About December 1, two cars of oats were purchased for "stock account" for 53 cents per bushel, the market being at low ebb at the time. One car was for immediate delivery, the second car to be delivered about January 10. At the time the last car was delivered to "stock" the price on this quality oats was 60 cents. The price has ranged from 59 to 63 cents, going as high as 65 cents. There are 400 bushels of this supply in stock. Conservatively estimated there has been a saving to the different departments feeding "stock" on this lot of \$200.

The prevailing price of timothy hay from August to December was \$19 to \$21 per ton. In September a car of thirteen tons was purchased for "stock" to be issued to the Fire Department, this being the only department feeding timothy, at \$18. In October a car was placed in "stock" for the Fire Department at \$18.50, while in December a car was placed in "stock" for \$22.50. This hay has been selling as high as \$24 and is difficult to secure at any price. There are approximately five tons of timothy of the last lot in

"stock." The approximate total saving on hay for the Fire Department during the seven months has been \$60.

From August 1, 1909, to February 28, 1910, total purchases for "stock" amounted to \$3,261.81. Total issues from "stock" were \$2,975.26, leaving total on hand of value of \$285.55.

Issues from "stock" to different departments were as follows:

Fire .....	\$2,376.36
Police .....	74.67
Water .....	307.73
Street and Bridge.....	9.00
Sewer .....	15.00
Scavenger .....	192.50

Cost of feeding per head of the horses and mules in the various departments has been as follows, per month:

	Per head.
Fire Department (47 horses).....	\$12.50
Street and Bridge (65 mules).....	10.00
Police (4 patrol horses) .....	9.50
Water Department (8 mules).....	10.00
Scavenger (10 mules).....	13.50

Owing to the fact that there is no storage capacity at the scavenger stables, coupled with the fact that it is considered by the head of that department that the mules are worth more to the city in their routine capacity than they would be during the time consumed in hauling feed from "stock," feed supplies for this department were subject to market fluctuations, hence the difference in the cost of feeding. The fire horses, in addition to being fed oats and timothy hay, are fed bran, and occasionally chops and stock food. These are high-class horses and the best and most expensive must be fed them.

#### COMPETITION AMONG OIL COMPANIES.

Competition among the oil companies for the city's business has been vigorous, with the result that the city is now paying only 10 cents per gallon for gasoline, against 13 to 14, and in some instances, 15 cents, prior to August 1.

Almost immediately there was a drop to 10½ cents. Kerosene is being purchased for 8 cents per gallon against 10 to 11 cents, while engine naptha is being purchased for 8 cents against 10 and 11 cents prior to August 1. Axle grease is being purchased at 2½ to 3 cents per pound against 4 cents prior to August 1. On some qualities of cylinder oil 45 cents is being paid against 65 cents, while on some qualities of engine oil 30 cents is being paid against 45 cents. On compression grease and other lubricants there has been a material reduction in prices.

The Police Department with auto and four motorcycles, the latter doing police duty continuously day and night, consumes approximately 300 gallons of gasoline per month. The Fire Department consumes per month approximately 125 gallons. The Electrical Department consumes approximately 60 gallons, while the Water Department consumes approximately 100 gallons. The tender to the Dredge Tom Ball consumes gasoline, while the Sewer and Street and Bridge Departments consume gasoline in small quantities.

The Fire Department consumes about 90 gallons of kerosene per month, and about the same amount of engine naptha. The Police, Street and Bridge, Scavenger and Sewer Departments consume kerosene in small quantities each month.

#### OTHER SUPPLIES.

Dealers in picks, shovels, all kinds of hardware, tools, pipe, couplings and other fittings, and nails, have been anxious to secure business from the city, and have made close prices and discounts. Competition among such dealers has been brisk. It would not be possible to go into detail as to the saving.

Dealers in electrical supplies have also given the city the same close discounts that they give to the trade, the smaller dealers.

There has been a reduction in the price of cement from \$1.80 and \$1.90, the prices prevailing prior to August 1, to

\$1.70 on purchases of less than ten barrels and \$1.60 on purchases in excess of that. A supply of cement for the Water Department for the manufacture of meter boxes was laid in for \$1.38 per barrel, a price, I am informed, smaller than the average contractor pays.

There has been a reduction in the prices of sewer pipe, sand and brick. Twenty-eight hundred feet of 30-inch standard sewer pipe for the spillway at the filter plant was purchased at \$2.21 per foot, when the prevailing prices bid on this purchase were \$2.28 to \$2.31.

Last October 300 tons of standard 8-inch, 86 pounds, pipe was purchased for the extension of water mains at \$27.40, when the prevailing price was \$30 the ton. There was a drop in pipe the latter part of December and 200 tons were purchased at \$26.40 the ton. This pipe has since fluctuated \$1.00, \$1.50 and \$2.00 the ton.

In October a car of pig lead was purchased for \$4.72½ per 100, when the prevailing price was \$5. The price now is \$5.25.

#### SYSTEM OF RECORDS.

After experimenting with a number of systems for the conduct of the affairs of this department in an intelligent and accurate manner, one was finally adopted which is simple, minimizes bookkeeping and which meets the needs of the department.

It has been accomplished by opening a purchase record journal in which are kept accounts against the various departments, placing opposite each entry the number of the official order issued at the time of the purchase.

When a requisition is received by this department from any other department and the purchase authorized, an official order is issued, which is signed by the Mayor and City Secretary. The number on this order is stamped on the original requisition. These requisitions are filed away.

Thus there are four checks on each item purchased—the entry in the record journal with the number of the

official order, the itemized and numbered requisition, the carbon copy of the requisition in the office of the department from which it is issued, and the carbon copy of the official order in the office of the Secretary.

It is thus possible to trace bills, even should the dealer lose the official order, which is frequently the case. By reference to the record journal or the requisitions the account may be verified, if correct, and turned down if not correct. In such cases, the dealer is sure his bill will be honored. Should it happen that an order so misplaced is found after bill has been paid and a new bill be presented, there is no likelihood of a duplicate payment for the reason that the order number has been stamped on the voucher.

This system, though simple, is a valuable adjunct to the comprehensive auditing system in the controller's office.

#### RECAPITULATION.

Feed saving, Street and Bridge, six months.....	\$ 556.00
Lumber saving, Street and Bridge, seven months.....	600.00
Feed saving, "stock account," seven months.....	460.00
Cement saving water, car lot.....	85.00
Gasoline, approximate total saving for all departments for seven months .....	125.00
Water pipe, 300 tons, saving \$2.60 the ton.....	780.00
Water pipe, 200 tons, saving \$2.00 the ton.....	400.00
Sewer pipe, 2,800 feet, saving 9c the foot.....	252.00
*Brookside coal, Fire and Police, seven months.....	80.00
Total .....	\$3,338.00

#### EXPENSE.

The total expense of maintaining this department, including salary, stationery and stamps for the seven months, was \$1,060.00.

The above figures have been computed from purchases where the saving was self-evident, and does not include the saving on lumber other than 3x8x20, the saving on tools,

\*There has been a reduction in coal from \$11.00 per ton to \$10.50. The Fire Department has consumed approximately 150 tons and the Police Department 10 tons.

hardware, small pipe, fittings, electrical supplies, nails, picks, shovels and other sundries. To the above total saving might be added the saving on the car of pig lead—40,000, saving 28½ cents per hundred, or a total of \$114. This gives a total self-evident saving on purchases of \$3,452.00. It is safe to estimate that the saving on other items would total \$1,000.00. And it might not be improper to say that the fact that there is a central purchasing head in close touch with the Mayor and under his direction has tended to estop purchases, which, perhaps, would have been made in the absence of this deterrent system.

The results secured by the Purchasing Department are due in great measure to the co-operation and assistance of the heads and officials of the various departments. All departments are working harmoniously with this department. Department heads recognize the advantages and strictly business system of a central purchasing head. They feel that it is a relief to them, that the time they formerly devoted to the purchase of supplies can be utilized, and is utilized, to better advantage in the other work of their departments—that they can accomplish more for the city by devoting their time and thought to these other duties.

The business men of the city have also rendered valuable assistance to the head of the Purchasing Department. Information given by them as to condition of markets has been reliable, enabling this department to anticipate increases in prices. Business men have taken kindly to the competitive system. They recognize that it is up to them to make prices and deliver qualities and weights in the matter of securing city business.

All of which is respectfully submitted.,

PAT DOUGHERTY,  
*Purchasing Agent.*

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